MINISTRY OF FORESTS

Thompson Okanagan FRBC Region

Resource Management Plan 2002-03

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CHAPTER 1

INTRODUCTION

The Ministry of Forests (MOF), the Ministry of Water, Land and Air Protection (MWLAP), and the Ministry of Sustainable Resource Management (MSRM) are mandated by legislation to undertake planning functions related to the management of Crown forest land. The Executives of both ministries have directed ministry staff to implement resource management planning (RMP) to identify forest resource management needs and priorities.

Resource management planning was introduced to the ministries in 1998, as a way to link resource management objectives with Forest Renewal BC's (FRBC) investment making decision and project selection. The planning process is based on defined FRBC land based Strategic Objectives (e.g. Sustainable Harvest, Enhancing Environmental Values and Strengthening Sustainable Forest Management) and performance measures. Previous RMP's have included MOF components (e.g. forest service road program management, current reforestation, forest health maintenance, non-status road rehabilitation & deactivation, recreation). These ministry programs will no longer be a part of the RMP, but instead will be included within the new ministry Performance Planning process under the appropriate Business Area (e.g. forest road infrastructure, forest and range productivity improvements, recreation and non-timber/non-range benefits).

The purpose of the RMP is to:

- Identify MOF, MWLAP and MSRM resource management objectives and priorities in support of FRBC's strategic objectives and performance measures;
- Recommend investment opportunities in support of FRBC's strategic objectives eligible for investment funding;
- Enable the tracking of:
  * funded and completed resource activities to support strategy driven performance targets;
  * resource activities which have not been funded to identify associated ramifications; and
- Provide information on various criteria and indicators towards achieving sustainable forest management (i.e. certification).

The RMP provides the necessary information for FRBC to make informed investment decisions. It is developed with full involvement of licensees and based on best available information at the time of the plan. The RMP considers TSA, as well as TFL and Woodlot Licence, objectives and priorities under each FRBC Strategic Objective.

The Kamloops Region RMP addresses the priorities for land based activities from the perspective of biological needs and forest resource management priorities. It is designed to provide guidance to Forest Renewal BC in determining the best activities for investments, regardless of the funding source or who is actually completing the work. Towards these ends, the RMP should satisfy a variety of purposes. It examines land based resource needs and priorities in terms of:

- commitments, recommendations and links to other land and resource management plans;
- the long term resource implications of current investments;
- the value, risks and benefits of the various activities and treatments;
- the necessary timelines to meet resource management objectives;
- delivery recommendations, viable options and consequences of not carrying out the activity;
- consistency within programs and between delivery centres; and
- providing resource investment recommendations consistent with Forest Renewal BC investment principles and ground rules. A copy of the ground rules can be found in Appendix 2.

Chapter 2
Sustainable Harvest (SH)

Thompson Okanagan FRBC Region

Resource Management Plan

Sustainable Harvest Component

Following is the Sustainable Harvest (SH) component of the Resource Management Plan (RMP) in the Thompson Okanagan FRBC region. Each management unit has prepared a set of recommendations consistent with the provincial guidelines and local ground rules. These recommendations were made available for review to interested stakeholders in an attempt to solicit improvements to the planned activities. Following are the primary contacts for each management unit and can provide clarification to the contents as necessary.

Location	Name	Phone	E-Mail
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Kamloops TSA			
Clearwater	Bill Lougheed	587-3699	Bill.Lougheed@gems4.gov.bc.ca
Kamloops	Ken Chantler	371-6532	Ken.Chantler@gems7.gov.bc.ca
Lillooet TSA	Ray Morello	256-1200	Ray.Morello@gems7.gov.bc.ca
Merritt TSA	Ed Nedokus	378-8468	Ed.Nedokus@gems6.gov.bc.ca
Okanagan TSA			
Salmon Arm	Kimm Magill-Hoffman	833-3407	Kimm.MagillHofmann@gems5.gov.bc.ca
Vernon	Don Purdy	558-1700	Don.Purdy@gems4.gov.bc.ca
Penticton	Alan Rasmussen	490-2212	Alan.Rasmussen@gems9.gov.bc.ca
TFL 15	Nick Kleyn	546-8711	nick.kleyn@weyerhaeuser.com
TFL 18	Rowena Bryan	676-9518	robryan@slocan-vavenby.com
TFL 33	Jeff Lipsett	833-1230	lipsett@fclcanoe.com
TFL 35	Nick Kleyn	546-8711	nick.kleyn@weyerhaeuser.com
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Interfor IFPA	Larry Henry		lhenry@nicolavalley.com
Merritt IFPA	Alan Thorne	679-3234	al_thorne@interfor.com

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Chapter 2
Sustainable Harvest (SH)

2.0 Priorities, Issues and Process

This portion of the Resource Management Plan (RMP) for the Thompson Okanagan Region of Forest Renewal BC (FRBC) examines investments that will improve future harvests and forest conditions consistent with sustainable forestry concepts. Guidance is provided in the first strategic objective (SO#1) in Forest Renewal's business plan that states;

> **"Forest Renewal BC will invest in the production of faster-growing, higher-quality stands of second-growth timber on lands available for timber production".**

The work associated with accomplishing this objective is silviculture in nature. The two main components of SH are Backlog Reforestation (BL) and Enhanced Forestry (EFP). However, the program also includes silviculture studies and works such as forest health enhancement, habitat and biodiversity enhancement, site restoration, and various planning and studies associated with silviculture.

2.0.1 Purpose

The intent of the SH component of this RMP is to identify and prioritize investment 'opportunities' that will increase future harvest rates, timber quality, timber value, habitat, biodiversity and increase the productive land base.

2.0.2 The Planning Process

Development of the SH component is designed to be consistent with applicable agreements, guidelines and the FRBC Ground Rules for the Thompson Okanagan. The ground rules provide performance indicators against which accomplishments will be measured at a future date. In addition, forest-level stewardship plans have been developed for three TSAs and are currently being developed for the remaining management units in the region. These, along with local silviculture strategies, are guiding decisions regarding which investments will best meet the strategic objective and satisfy or exceed achievement of the performance indicators.

The key SH objective in the Thompson Okanagan Region is to increase the potential future harvest by 3.5 million cubic metres between 1999 and 2003. Regionally the priority for SH is on satisfactorily stocking Backlog sites and bringing as many hectares as feasible to free-growing status by 2004. However, each management unit has differing needs and priorities in regards to meeting and contributing to attainment of the key objective and strategies. Recognition of these differences will be reflected in the different types of work proposals from each management unit.

Focus – The focus of this plan is directed at providing the most beneficial works to meet SO#1 while recognizing the local differences in priorities and needs.

Format – The information for each management unit is provided in tabular format under section 2.2. The first set of tables (2A's) provides the proposed works under EFP including forest health and habitat projects. The second set of tables (2B's) provides the proposed works under BL. Both of these tables are divided into priority 1 and priority 2 works, which is discussed under prioritization. A third set of tables (2C's) provides clarification and details on non-standard types of projects such as studies, research or miscellaneous projects. The tables provide goals and funding recommendations by activity to meet the strategies. Where practical, these works have been scheduled over a five-year period to address future investment needs.

Prioritization – Virtually every proposed investment opportunity through SH is someone's high priority. However, to provide a relative ranking for FRBC investments, these works have been prioritized in accordance with the FRBC Ground Rules. The ground rules provide a target investment amount for SH by management unit. Priority 1 is 90% of that funding target and priority 2 is an addition 40% of the target. This 130% total of investment target is an artificial prioritization process designed to limit proposals to those of most importance. However, it should be noted than addition priority work remains to be done that has not been included into the RMP proposals.

Scheduling – The five-year scheduling of investment opportunities and recommendations in the tabular summaries is designed to be realistic. However, it is constrained to the approximate funding targets by management unit in the FRBC ground rules. In many cases, the inclusion of new works in the future has not been included because of uncertainty and limited time.

2.0.3 The SH Programs

There are three basic component parts of Sustainable Harvest that categorize the issues into separate types of deliverables. These are Backlog Reforestation, Enhanced Forestry and Silviculture Studies.

Backlog Reforestation – This program is to satisfactorily restock old areas (pre Forest Practice Code requirements) of denudation and bring them to a free growing status. Backlog reforestation is the work that is most likely to increase the potential future harvest by 3.5 million cubic metres between 1999 and 2003 and is the highest priority under SH. The target date for completing the reforestation phase of this program is 2004. However, in the Backlog Reforestation tables, planting will often be shown after the year 2004. The reason is that new areas are discovered each year and plantations sometimes fail due to biotic or abiotic factors. These trends are built into the planning process and thus backlog planting is often shown beyond the target completion date.

Enhanced Forestry – This program is designed to improve immature stands that have been declared free growing and thus are not a basic operational requirement. These works are often designed to improve stocking densities, forest health conditions, wood product values and so on. The intent of Enhanced Forestry is to diversify our future portfolio of stand conditions and therefore improve the odds of meeting future market demands. It should be noted that as works on these sites are completed the total opportunities for future work is diminished. Care must also be taken to ensure that low risk sites are selected and the future financial returns that will justify the cost. In comparison to other recommendations in the RMP, investments into Enhanced Forestry are fairly low on the priority list.

Silviculture Studies – There are a number of silviculture studies, operational trials and other works that are needed to improve delivery of the SH component of the RMP. These are directed toward Backlog Reforestation or Enhanced Forestry needs. The intent of these works is usually directed toward three information needs: to assess treatment effectiveness; to provide pre-treatment information or analysis; or to fill an information gap such as the interactions between resources if a treatment proceeds. With this variety of recommendations, a separated table is provided by management unit to explain the basic concept of each recommendation and thus the priority attached to its completion. As the opportunities in Backlog Reforestation and Enhanced Forestry decline, there is a tendency to increase the recommendations under silviculture studies.

2.0.4 Presentation of Materials

SH proposals and information are provided for each management unit under section 2.2. For each management unit the Basic Data, Issues, Opportunities and then Tables 2A (Backlog), 2B (Enhanced) & 2C (Studies) are provided. The management units are presented in the following order:

2.1	Kamloops Region
2.2	Kamloops TSA
2.3	Lillooet TSA
2.4	Merritt TSA
2.5	Okanagan TSA
2.6	Interfor IFPA
2.7	Merritt IFPA
2.8	TFL 15 – Weyerhaeuser
2.9	TFL 18 – Slocan
2.10	TFL 33 – Federated
2.11	TFL 35 – Weyerhaeuser
2.12	TFL 49 – Riverside
2.13	Thompson Okanagan Summary

Part 2.1
Kamloops Region

2.1.1 Basic Data (TSA's)

Land Area (TSA's)

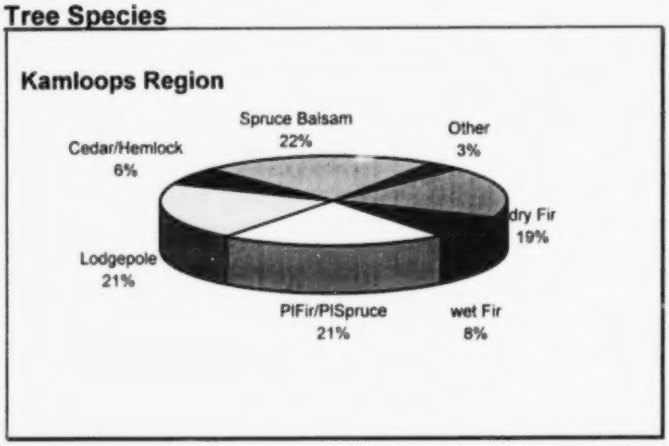
Description	Area (ha)	Area %
Total Area of TSA's	6,530,700	100
Total Productive Crown Forest	4,186,100	64
Net Timber Harv. Land Base	2,796,500	43

Source: TS analysis report - rounded to nearest 100 ha.

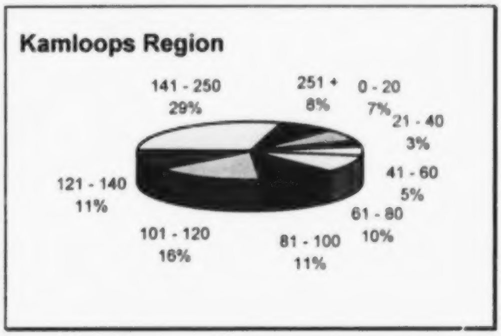
AAC

AAC Type	Pre-TSR (m^3)	TSR1* (m^3)	Change (%)
Conventional	6,906,430	6,855,930	-0.8
Deciduous	-	-	-
Insect/Disease	-	-	-
Marginal	-	536,000	
Total	6,906,430	7,391,930	+7.0

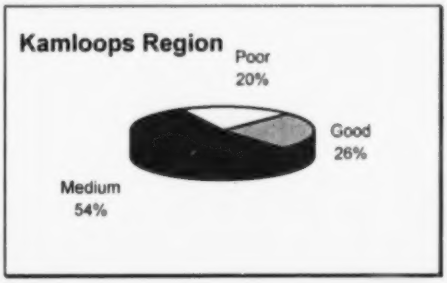
Tree Species



Age Classes



Site Classes



Probable Long Term Annual Incremental Treatment Levels

Treatment/Unit	Kamloops	Lillooet	Merritt	Okanagan	Region
Spacing	700	80	800	1,000	2,580
Pruning	350	20	160	455	985
Fertilization	1,000	100	220	2,200	3,520

2.1.2 Issues

TSA timber supply is sensitive to green-up constraints. Anything reducing green-up timeframes will increase available timber supply. Reducing minimum harvest ages 20 years and increasing existing stand volumes 10% can each extend existing harvest levels several decades. Focusing incremental silviculture on these two factors would serve to either mitigate potential reductions or extend existing harvest levels. Spacing opportunities in the ICH and wetter IDF subzones are limited by the presence of root rot. As is the case in virtually all TSA's, the long-term timber supply is sensitive to changes in regenerated stand volumes. Every 1% increase or decrease in regenerated volume results in a more or less corresponding 1% change in LTHL.

In the Kamloops Region, there are few long-term timber supply problems that conventional stand tending will significantly improve (e.g.: such as age class gaps). Many of the silviculture needs are knowledge gaps and information requirements that might best be addressed under SSFM. However, following is a general prioritization for these conventional SH works.

- Completion of backlog reforestation by 2004 remains top priority in all TSA's and this includes the surveys and reclassification of stocked stands as well as treatments to achieve free growing status.
- Fertilization is not employment intensive but is a prime tool for achieving SH targets, strategies and meeting performance indicators and thus a high priority.
- Incremental forest health treatments and studies can potentially reduce non-recoverable losses and have impacts on AAC which are more significant than conventional treatments and is a high priority.
- Incremental spacing of dense stands remains a moderate to high priority providing the number of stems retained is sufficient to reduce the future risk of losses.
- Pruning work is high cost, high risk, has questionable returns, and is only a low to moderate priority in relation to other silviculture works. However, completion of scheduled second lifts where first lifts have been done remains a high priority.
- Silviculture studies that have a broad application and the potential for significant gains (AAC, operations, biodiversity, etc) are a high priority. However, a separate process for evaluating and prioritizing these works should be implemented separate from and prior to the RMP process.
- The type 1 Silviculture Strategies have not yet been completed for all management units. When completed these should help in determining the various project priorities.

2.1.3 Opportunities to Increase Timber Supply

- Backlog and incremental reforestation enhance timber supply by putting NSR areas back into forest production. The goal is to have this work done by 2004 including reclassifying and/or restocking all backlog NSR. This goal may not be attainable but all backlog reforestation is deemed a high priority.

- A program of fertilization of suitable stands to increase the harvests from existing stands would extent the current harvest levels further into the future. Fertilization to date has mostly been limited to second growth spaced and pruned stands. Significant planning work needs to be carried out to implement a large fertilization program.

- A juvenile spacing program in younger existing stands will ensure that managed stand yields can be achieved. Spacing opportunities in the ICH and wetter IDF subzones are limited by the presence of root rot. Incremental silviculture practices (spacing) may also be able to accelerate stand development so that merchantability and mature cover characteristics are achieved earlier than in the base case timber supply scenario.

- In the timber supply analysis, substantial reductions were made to regenerated stand volumes through increased TIPSY OAF1 and OAF2 factors. There are opportunities to increase long term timber supply through obtaining higher and more uniform stocking in these stands and through overcoming losses to root rots.

2.1.4 Opportunities to Improve Timber Quality

While incremental spacing "can" increase the timber quality and value, it can also decrease those attributes along with the stand volume. Spacing significantly increases the risk of large limbs resulting in decreasing value. The potential for losses from pests, abiotic factors and fire are also significantly increased. To reduce risk and diversify the portfolio, no more than about 40% of the steady state level should be targeted for incremental spacing annually. Also, spaced stands should not be targeted for fewer than 1200 sph unless accompanied by pruning. Pruning is also high risk. For a diversified portfolio and risk reduction, no more than 50% of the potentially available hectares should be targeted for treatment.

2.1.5 Habitat Supply

MELP intends to investigate the types and locations of treatments that will be most beneficial within the region. Vernon, Kamloops, Merritt and Penticton districts have been targeted for the examination. When results are known the priorities for treatments to improve habitat supply will be better understood and can be effectively applied. The investigation is focusing on wintering sites in NDT4. Habitat improvement potentially including spacing is to be investigated.

2.1.6 SH Tables for Kamloops Region

For the Kamloops Region, following is table 2A for Enhanced Forestry. Most SH works are logically delivered through the individual management unit. However, defoliator spraying is an on-going program that changes locations from year to year and due to operational considerations is best delivered through the regional forest health specialist. Tables 2B for Backlog Reforestation and 2C for details regarding studies, research or miscellaneous projects are expected to be delivered through each management unit and are not included in the Regional tables. Note that defoliating insects are on the rise and additional spraying is required.

Kamloops Region
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$170,000	10000	ha	12000	14000	14000	12000	$17	850	130000	0	$1,054,000
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$170,000								850	130000	0	$1,054,000
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$80,000	5000	ha	6000	7000	7000	6000	$16	400	65000	0	$496,000
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$80,000								400	65000	0	$496,000
Summary - Priority 1 + 2												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health*	$250,000	15000	ha	18000	21000	21000	18000	$17	1250	195000	0	$1,550,000
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$250,000								1250	195000	0	$1,550,000

Part 2.2
Kamloops TSA

2.2.1 Basic Data

Land Area

Description	Area (ha)	Area %
Total Area of TSA	2 117 700	100
Total Productive Crown Forest	1 441 100	68
Net Timber Harv. Land Base*	950 800	41

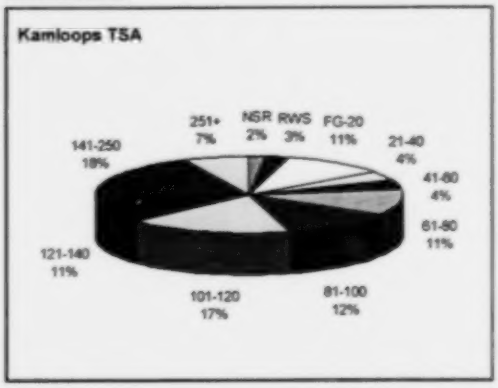
Source: TS analysis report - rounded to nearest 100 ha.

AAC

AAC Type	Pre-TSR (m^3)	TSR1* (m^3)	Change (%)
Conventional	2 393 180	2 393 180	0.0
Deciduous	-	-	-
Insect/Disease	-	-	-
Marginal	-	286 000	∞
Total	2 393 180	2 679 180	+12.0

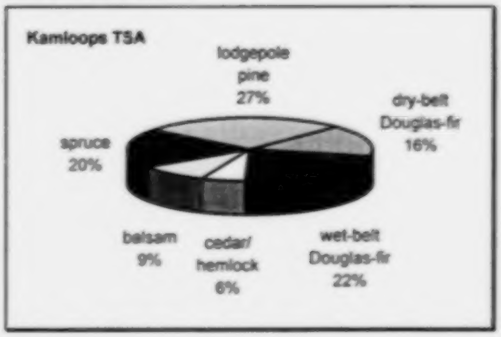
Woodlot AAC	Excluded from TSA AAC	23 500	

Age Class

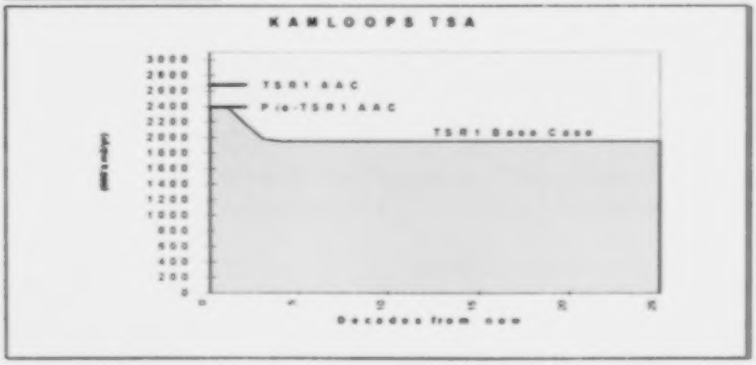


Data scaled from chart in TS analysis report. Stands managed for selection harvest and for late winter caribou habitat not included (22% of THLB in total).

Tree Species



Harvest Forecast



2.2.2 Issues

TSA timber supply is sensitive to green-up constraints. Anything reducing green-up timeframes will increase available timber supply. Reducing minimum harvest ages 20 years and increasing existing stand volumes 10% can each extend existing harvest levels several decades. Focusing incremental silviculture on these two factors would serve to either mitigate potential reductions or extend existing harvest levels. Spacing opportunities in the ICH and wetter IDF subzones are limited by the presence of root rot. As is the case in virtually all TSA's, the long-term timber supply is sensitive to changes in regenerated stand volumes. Every 1% increase or decrease in regenerated volume results in a more or less corresponding 1% change in LTHL.

- Completion of backlog reforestation by 2004 remains an issue in the TSA, particularly the northern portion.
- Spacing and pruning are generally of lesser priority than BL.
- The type 1 Silviculture Strategy for the TSA has not yet been completed.

2.2.3 Opportunities to Increase Timber Supply

- Backlog and incremental reforestation enhance timber supply by putting NSR areas back into forest production. The Kamloops LRMP commits to reclassifying and/or restocking all backlog NSR by the year 2000. This goal is not attainable but all backlog reforestation is deemed a high priority in this TSA.

- A program of fertilization of suitable stands to increase the harvests from existing stands would extent the current harvest levels further into the future. Fertilization to date has been limited to second growth spaced and pruned stands. Significant planning work needs to be carried out to implement a large fertilization program.

- A juvenile spacing program in younger existing stands will ensure that managed stand yields can be achieved. Spacing opportunities in the ICH and wetter IDF subzones are limited by the presence of root rot. Incremental silviculture practices (spacing) may also be able to accelerate stand development so that merchantability and mature cover characteristics are achieved earlier than in the base case timber supply scenario.

- In the timber supply analysis, substantial reductions were made to regenerated stand volumes through increased TIPSY OAF1 and OAF2 factors. There are opportunities to increase long term timber supply through obtaining higher and more uniform stocking in these stands and through overcoming losses to root rots.

	Potential Volume Strategies	Kamloops TSA
Response Time Frame	**Strategy/Action**	**Anticipated Result**
◆ Short Term	1. Increase the fertilization of existing suitable stands to reduce minimum harvest ages and increase existing stand volumes. 2. Continue juvenile spacing excessively dense stands to ensure managed stand yields are achieved. 3. Complete backlog reforestation program no later than 2004. 4. Bring backlog stands to free-growing status as quickly as possible. 5. Fill plant (incremental plant) holes and gaps in areas deemed satisfactorily stocked. 6. Through an accelerated forest health program, reduce unsalvageable mortality and growth losses.	Extend current harvest levels.
◆ Mid Term	1. Continue programs 1 and 2 above.	Extend the current harvest level.
◆ Long Term	1. Increase regenerated stand volumes by: • Repeat fertilization of suitable stands. • Ensure full stocking of all regenerated stands. • Manage forest health issues, reducing OAF2. • Use of Class A seed or better on all planted stands.	Increase long-term harvest levels.

2.2.4 Opportunities to Improve Timber Quality

If all pruning opportunities on sites greater than site index 17.5 were considered over a long term, about 700 hectares would be available for pruning on an annual basis. For a diversified portfolio, no more than 50% or about 350 hectares should annually be considered for pruning in the TSA.

While incremental spacing "can" increase the timber quality and value, it can also decrease those attributes along with the stand volume. Spacing significantly increases the risk of large limbs resulting in decreasing value. The potential for losses from pests, abiotic factors and fire are also significantly increased. The steady stead level for all incremental spacing in the TSA is about 1,400 hectares. To reduce risk and diversify the portfolio, no more than about 40% of the steady state level (about 700 hectares) should be targeted for incremental spacing annually. Also, spaced stands should not be targeted for fewer than 1200 sph unless accompanied by pruning.

	Potential Quality/Value Strategies	Kamloops TSA
Response Time Frame	**Strategy/Action**	**Anticipated Result**
◆ Short Term	1. Fertilization of stands within 5 to 10 years of harvest (second growth) for volume and thus value increases. 2. Forest health treatments on older second growth stands to decrease pest incidence which affects stand quality and value.	Minor short-term value and quality gains.
◆ Mid Term	1. Extend strategies 1 & 2 above into younger age classes for mid-term benefits.	Expands the quality and value benefits into the mid-term.
◆ Long Term	1. Cyclic fertilizations throughout stand development. 2. Continuing forest health treatments throughout stand development. 3. Spacing of about 920 hectares annually with pruning on lower stockings and maintaining higher stocking rates where pruning is not to be done. 4. Pruning of about 400 hectares annually in previously spaced stands.	Significant quality and value increases at harvest but higher risk of losses over the rotation.

2.2.5 Habitat Supply

Within the TSA, Kamloops district has been targeted for locating sites and development of a habitat improvement plan focusing on wintering sites in NDT4. Habitat improvement potentially including spacing is to be investigated.

2.2.6 SH Tables for Kamloops TSA

For the Kamloops TSA, following are tables 2A for Enhanced Forestry, 2B for Backlog Reforestation and 2C for details regarding studies, research or miscellaneous projects.

Kamloops TSA
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$18,725	749	ha	320	178	241	180	$25	75	0	0	$41,700
SM Prescriptions	$48,178	580	ha	355	315	305	90	$83	193	0	0	$136,643
Spacing	$175,000	285	ha	372	348	225	200	$614	844	0	285	$878,070
Pruning	$30,000	250	ha	205	235	58	25	$120	1135	0	250	$92,760
Fertilization	$25,000	100	ha	190	100	100	0	$250	18	2600	100	$122,500
Forest Health	$55,000	100	ha	100	100	100	100	$550	275	1300	0	$275,000
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$5,833	2.5	ha	2.5	2.5	2.5	2.5	$2,333	2	308.75	0	$29,165
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$357,736								2542	4209	635	$1,575,838
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$20,447	319	ha	12	48	0	0	$64	82	0	0	$24,293
Spacing	$193,500	138	ha	59	140	33	28	$1,402	408	0	138	$558,065
Pruning	$74,800	68	ha	233	148	35	30	$1,100	309	0	68	$565,400
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$288,747								799	0	206	$1,147,758
Summary - Priority 1 + 2												
Surveys	$18,725	749	ha	320	178	241	180	$25	74.9	0	0	$41,700
SM Prescriptions	$68,625	899	ha	367	363	305	90	$76	274.5	0	0	$160,936
Spacing	$368,500	423	ha	431	488	258	228	$871	1252.08	0	423	$1,436,135
Pruning	$104,800	318	ha	438	383	93	55	$330	1443.72	0	318	$658,160
Fertilization	$25,000	100	ha	190	100	100	0	$250	18	2600	100	$122,500
Forest Health*	$55,000	100	ha	100	100	100	100	$550	275	1300	0	$275,000
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$5,833	2.5	ha	2.5	2.5	2.5	2.5	$2,333	2.375	308.75	0	$29,165
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$646,483								3341	4209	841	$2,723,596

Kamloops TSA
Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$435,750	16233	ha	10181	10200	8376	3000	$27	1623	87049	0	$1,288,218
Prescriptions	$24,000	175	ha	225	225	225	0	$137	80	0	0	$116,571
Site Preparation	$143,352	240	ha	190	140	80	30	$597	228	0	0	$406,164
Plant	$163,500	205	ha	200	170	120	50	$798	431	25317.5	0	$594,183
Seedlings	$124,024	377.2	K	185	155	60	40	$329	128	8336.12	0	$268,697
Brushing	$331,028	431	ha	478	527	562	140	$768	1125	7003.75	0	$1,642,083
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$1,221,654								3615	127707	0	$4,315,916
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	0	0	0	0	$0	0	0	0	$0
Brushing	$10,000	20	ha	0	0	0	0	$500	52	325	0	$10,000
Spacing	$13,100	20	ha	20	20	20	0	$655	59	0	20	$52,400
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$23,100								111	325	20	$62,400
Summary - Priority 1 + 2												
Surveys	$435,750	16233	ha	10181	10200	8376	3000	$27	1623.3	87049	0	$1,288,218
Prescriptions	$24,000	175	ha	225	225	225	0	$137	80	0	0	$116,571
Site Preparation	$143,352	240	ha	190	140	80	30	$597	228	0	0	$406,164
Plant	$163,500	205	ha	200	170	120	50	$798	430.5	25318	0	$594,183
Seedlings	$124,024	377.2	K	185	155	60	40	$329	128.248	8336	0	$268,697
Brushing	$341,028	451	ha	478	527	562	140	$756	1177.11	7329	0	$1,652,083
Spacing	$13,100	20	ha	20	20	20	0	$655	59.2	0	20	$52,400
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$1,244,754								3726	128032	20	$4,378,316

Kamloops TSA
SH Studies, Reasearch Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2001/02 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
(Brief title)	$0	2	(Provide sufficient information to describe & assess)	0	$0
Lodgepole pine stand dynamics	$70,000	2	Year 2 of 3 year proposal, to improve understanding of stand management on quanity and quality of final product	3	$150,000
Dennis Lloyd BEC project	$0	2	**BEC reclassification Project**	0	**$44,000**
	$0	2		0	$0
	$0	2		0	$0
	$0	2		0	$0

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	0
Hectares SR but not FG	0
Hectares prescribed - NSR	0
Hectares not prescribed - NSR	0

Post Free Growing	hectares/yr
Steady State level of incremental spacing	0
Steady State level of pruning for value	0
Optimal level of fertilization	0
Optimal level of habitat improvement	0

Background	
Annual harvest area - 5 yr average	0
Planting (% of harvest)	1.00
Natural Regen (% of harvest)	0.00

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	0	0	0
Age Class 2 ha	0	0	0
Age Class 3 ha	0	0	0

Part 2.3
Lillooet TSA

Sec 2.3 Sustainable Harvest Recommendations

2.3.1 Basic Data(from Atherton and Associates Incremental Silviculture Strategy

After publication of the Analysis Report, the BCFS corrected errors, decreasing the THLB approximately 5%. Information below is noted as corrected or uncorrected, as available.

Between the time the analysis addendum was produced and the AAC determination, the Stein Valley park was created. While the AAC determination takes the park into consideration, the timber supply analysis and addendum do not.

Land Area

Description	Area (ha)	Area %
Total Area of TSA	1 123 800	100
Total Productive Crown Forest	529 200	47
Net Timber Harv. Land Base	278 200	25

Corrected THLB - rounded to nearest 100 ha.

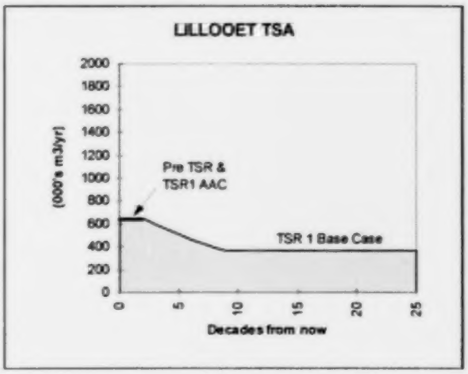
AAC

AAC Type	Pre-TSR (m^3)	TSR1* (m^3)	Change (%)
Conventional	643 500	643 500	0.0
Deciduous	-	-	-
Insect/Disease	-	-	-
Marginal	-	-	-
Total	643 500	643 500	0.0

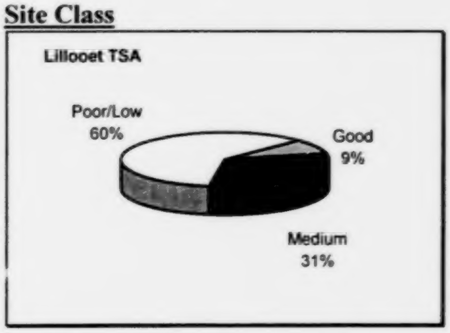
Woodlot AAC	Excluded from the TSA AAC	6 500	

*effective August

Harvest Forecast

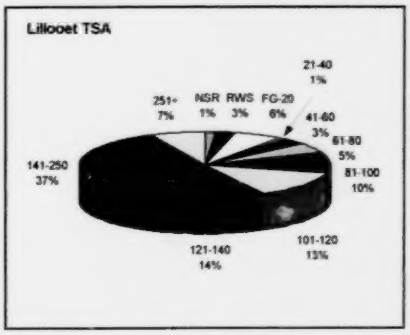


Site Class



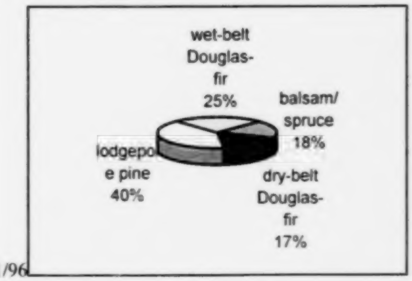
Uncorrected THLB.

Age Class



Uncorrected THLB. Data scaled from chart in TS analysis report.

Tree Species



Uncorrected THLB. Data scaled from chart in TS analysis report

2.3.2 Issues and Priorities

The Silviculture Strategy (Type 1) identified thirteen issues for the Lillooet TSA. The issues include:

1. Timber Supply Fall down	(predicted fall down is sensitive to stand yields)
2. Visually Sensitive Areas	(determining appropriate silv systems for VSA's, and address adjacency issues)
3. Mule Deer Winter Range	(determine future yield impact on silv systems)
4. Visual Quality Objectives	
5. Green Up	(reducing time to green up)
6. Riparian Management	(reforesting backlog RMA's)
7. Employment	(address local employment issues)
8. Root Disease	(volume reductions)
9. Dry Belt Douglas-fir	(unknown or inaccurate inventory and site index)
10. Species Conversion	(stands converted from Fd to Pl)
11. NTD 4 management	
12. Roads and Landing	(restore site productivity and increase THLB)
13. Landscape Unit Planning	

Although each issue has silvicultural related implications, the majority of the issues noted above must be addressed through Higher Level Plans prior to developing specific silviculture strategies.

Issues that are being addressed through the Sustainable Harvest program for the TSA include:

Basic

Timber Supply Falldown

addressing Backlog NSR by 2003 (piority 1)

protection of existing backlog plantations through brush blankets, vexars, shade cards, and brushing (piority 1)

surveys (regen and free growing) (piority 1)

max density spacing (priority 1)

Enhanced

Achievement of Green Up

- surveys (green up) fertilization and spacing(priority 2)

Timber Supply Falldown

spacing to offset fall down (priority 2)

Studies

Root Rot

initiate a study on the use of Lw in the Lillooet TSA as a means to address armillaria root disease (priority 1)

Timber Supply

road and landing rehab opportunities study to increase THLB (priority 1)

The following silviculture priorities were determined from the Lillooet TSA Silviculture Strategy (Type 1):

Surveys:

1. Backlog
2. Green up surveys
3. Survey roads and landings to identify opportunities for rehabilitation and the necessary treatments to restore site productivity

Regn to Free to grow

1.Protection of existing plantations: Vexar and Shade card maintenance, brushing- backlog
2. Planting- Backlog
3.Seed-Backlog
4.,General Surveys

Spacing

1.Incremental and Max Density

Pruning

1. Incremental
2. Forest Health

2.3.3 Opportunities to Increase Timber Supply (from Atherton and Associates Incremental Silviculture Strategy)

Site factors such as rough terrain, dry climate and a relatively high proportion of poor site land limit the opportunities for incremental silviculture to increase timber supply.

There may be some opportunity to increase timber supply by utilizing non-merchantable, low sites or deciduous stands.

Potential Strategies by Response Time Frame

	Strategy/Action	Anticipated Result
◆ Short Term	None	Maintain post TSR AAC into 2nd decade.
◆ Mid Term	1. Increase regenerated stand yields 10% by: • reducing time to regeneration to 0 or 1 year; • using A class seed or better; • using large planting stock; • implementing a void management program to reduce TIPSY OAF1 by 5%.	Increase harvest levels 3% to 412 000 m3/yr.
◆ Long Term	As above.	Increase LTHL from 400 000 to 442 000 m3/yr.

Potential Treatments and Analysis Results

Treatment	Comment/ Potential Treatment Regimes	Treatable Area
◆ Conifer Release/ Brushing	No opportunities noted in TS analysis.	
◆ Spacing	May be used to improve upon 15% OAF1 TIPSY reductions.	
◆ Fertilization		40% of forests in the THLB has Pl as the leading species and 25% has wet-belt Douglas-fir. Younger stands may be candidates for fertilization.
◆ Commercial Thinning	None taking place at time of TS analysis. Not required to overcome forest cover constraints.	Chief forester notes the age class structure and adverse terrain limits opportunities for CT (rationale, 19).
◆ Backlog NSR	All assumed restocked by the year 2003. No additional opportunity.	
◆ Conversion	No information available.	

2.3.4 Opportunities to Improve Timber Quality

Pruning has been practiced recently in the Lillooet District TSA on those sites where it is viable (biologically/economically).

The small proportion of good/medium sites in our District limit the opportunities to improve timber quality through pruning. Pruning early, prior to achieving a 3m lift is/was a common practice. This practice ensured a smaller knotty core and maintained more live crown.

While pruning is declining in the district there are opportunities to do second entries on those stands where a 3m lift was not attained and to protect against white pine blister rus

2.3.5 Habitat Supply

Habitat improvement plans or works have not been recommended for Lillooet TSA at this time.

2.3.6 SH Tables for Lillooet TSA

For the Lillooet TSA, following are tables 2A for Enhanced Forestry, 2B for Backlog Reforestation and 2C for details regarding studies, research or miscellaneous projects.

LILLOOET TSA
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2002/03				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$12,100	180	ha	120	377	279	343	$67	48	0	0	$87,322
Spacing	$195,178	183	ha	269	180	331	429	$1,067	542	0	183	$1,484,633
Pruning	$89,160	74	ha	39	60	42	57	$1,205	336	0	74	$327,723
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$16,720	5	ha	5	5	5	5	$3,344	84	0	0	$83,600
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$313,158								1010	0	257	$1,983,278
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$3,300	85	ha	206	146	105	86	$39	13	0	0	$24,381
Spacing	$90,827	85	ha	206	146	105	86	$1,069	252	0	85	$671,051
Pruning	$18,360	15	ha	33	61	16	13	$1,224	68	0	15	$168,912
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$112,487								333	0	100	$864,344
Summary - Priority 1 + 2												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$15,400	265	ha	326	523	384	429	$58	61.6	0	0	$111,703
Spacing	$286,005	268	ha	475	326	436	515	$1,067	793.28	0	268	$2,155,684
Pruning	$107,520	89	ha	72	121	58	70	$1,208	404.06	0	89	$496,635
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$16,720	5	#	5	5	5	5	$3,344	83.6	0	0	$83,600
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$425,645								1343	0	357	$2,847,622

LILLOOET TSA

Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2002/03				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$35,397	1625	ha	1883	1659	1006	850	$22	163	8714	0	$152,980
Prescriptions	$550	3.3	ha	0	0	0	0	$167	2	0	0	$550
Site Preparation	$48,660	79	ha	0	0	0	0	$616	75	0	0	$48,66
Plant	$8,305	13	ha	209	0	0	0	$639	27	1605.5	0	$141,824
Seedlings	$7,744	19,360	K	125,200	0	0	0	$0	6582	427856	0	$57,824
Brushing	$3,993	3.3	ha	0	0	0	0	$1,210	9	53.625	0	$3,993
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	20	20	20	0	$0	0	0	0	$0
Studies*	$20,000	20	ha	20	20	15	15	$1,000	100	0	0	$90,000
Other*	$76,755	300	ha	208	13	0	0	$256	384	0	0	$133,298
	$201,404								7341	438229	0	$629,129
Priority 2 Works												
Surveys	$7,926	461	ha	0	0	0	0	$17	46	2472	0	$7,926
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	61	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	36720	0	0	0	$0	0	0	0	$0
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$7,926								46	2472	0	$7,926
Summary - Priority 1 + 2												
Surveys	$43,323	2086	ha	1883	1659	1006	850	$21	208.6	11186	0	$160,906
Prescriptions	$550	3.3	ha	0	0	0	0	$167	1.83333333	0	0	$550
Site Preparation	$48,660	79	ha	0	0	0	0	$616	75.05	0	0	$48,660
Plant	$8,305	13	ha	270	0	0	0	$639	27.3	1606	0	$141,824
Seedlings	$7,744	19360	K	161920	0	0	0	$0	6582.4	427856	0	$57,824
Brushing	$3,993	3.3	ha	0	0	0	0	$1,210	8.613	54	0	$3,993
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	20	20	20	0	$0	0	0	0	$0
Studies*	$20,000	20	#	20	20	15	15	$1,000	100	0	0	$90,000
Other*	$76,755	300	xx	208	13	0	0	$256	383.775	0	0	$133,298
	$209,330								7388	440701	0	$637,055

LILLOOET TSA
SH Studies, Reasearch Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2002/03 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
Seedling Protection Maintenance	$76,755	1	Maintenance of Vexars and Shade Cards on planted units	3	$149,444
Road and Landings Rehabilitation oppurtunities Study	$5,000	1	Survey roads and landings to identify oppurtunities for rehabilitation and the necessary treatments to restore site productivity	1	$5,000
Root Rot Study	$15,000	1	Initiate a study on the use of LW in the Lillooet TSA as a means to address armillaria root disease	3	$15,000
PROBE Sampling	$16,720	1	Remeasurement of established plots/ Establishment of new plots	5	$83,600
	$113,475				$253,044

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	25,145
Hectares SR but not FG	25,145
Hectares prescribed - NSR	270
Hectares not prescribed - NSR	1,555

Post Free Growing	hectares/yr
Steady State level of incremental spacing	272
Steady State level of pruning for value	54
Optimal level of fertilization	0
Optimal level of habitat improvement	0

Background	
Annual harvest area - 5 yr average	2,000
Planting (% of harvest)	1.00
Natural Regen (% of harvest)	0.00

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	66,517	25,700	58,958
Age Class 2 ha	34,367	13,278	30,462
Age Class 3 ha	9,978	3,858	8,841

Part 2.4
Merritt TSA

2.4.1 Basic Data

Land Area

Description	Area (ha)	Area %
Total Area of TSA	1 115 900	100
Total Productive Crown Forest	812 500	73
Net Timber Harv. Land Base	528 400	47

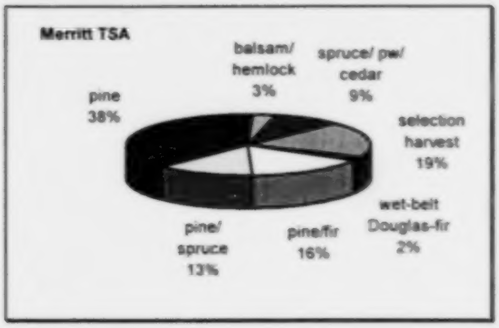
Source: TS analysis report - rounded to nearest 100 ha.

AAC

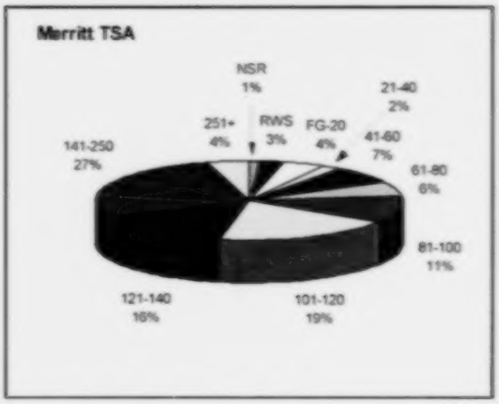
AAC Type	Pre-TSR (m^3)	TSR1* (m^3)	Change (%)
Conventional	1 254 750	1 204 250	-4.0
Deciduous	-	-	-
Insect/Disease	-	-	-
Marginal	-	250 000	∞
Total	1 254 750	1 454 250	+15.9
Woodlot AAC	Excluded from TSR1 AAC	11 500	

*effective January 1/96

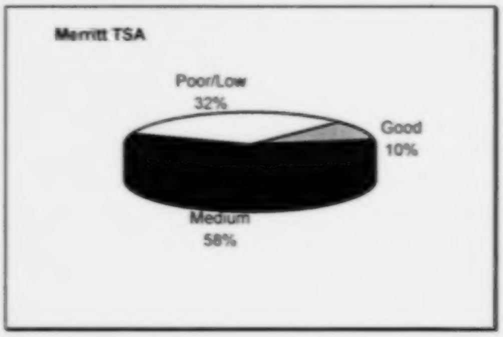
Tree Species



Age Class

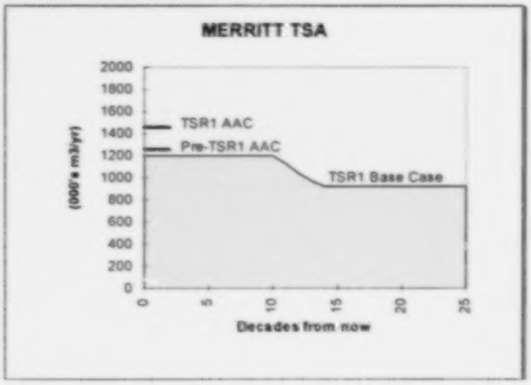


Site Class



Uncorrected THLB.

Harvest Forecast



2.4.2 Issues and Priorities

1. The District has an abundance of mature timber and a relatively good operating area resulting in a very stable timber supply. The current harvest level can be maintained for at least 100 years, barring major catastrophic losses ie. Mountain pine beetle. Beyond this time, there is a falldown response as existing forests with high volumes are replaced by regenerated stands with less volume/ha. Average harvested volume/ha. Is anticipated to decline from 340 m3 from existing stands to a long-term average of 280 m3. A continuing standtending program will ensure some stands will become merchantable earlier and possibly minimize any mid term trough.

2. The Long Term Harvest Level (LTHL) may have an opportunity to be increased through:

- rehabilitation or re-classification of dry-belt D-fir (43000 ha.)(TSR 11). Weyerhaeuser has an ongoing FRBC project looking into this.
- increasing regenerated stand volumes (IFPA).
- reducing regen delay (IFPA).
- Reduced road and landing withdrawals or rehabilitation of old roads/landings (future logging system changes).

3. Also there is a substantial probability the LTHL will increase if it is proven the site indices for managed Pli are underestimated as confirmed by paired plot sampling.

4. Pine stands in the TSA are prone to overstocking. As a result juvenile spacing has been a common practice in the past with the goal of reducing overstocked juvenile stands (>5000 sph) to more productive levels. There is some concern over the long term impacts of this practice on derived wood products and discussions over which density minimizes these concerns. Studies of yield, branch size, early/late wood%, wood density, tree taper, etc. are in progress. In the absence of a detailed silviculture strategy for the Merritt TSA to address these concerns, this plan is based on the concept of spacing regenerated stands that are excessively stocked ie. > 10,000 sph and not spacing those stands that are below 5000 sph.

5. Priorities for this plan have been derived from the Merritt TSA Silviculture Strategy (Type 1) developed earlier this year. Priority 1 was the combined workshop ranks 1,2 &3 while priority 2 was the remainder.

2.4.3 Opportunities to Increase Timber Supply

The nature of the Merritt TSA makes it a potential candidate for increased harvest levels that are sustainable for a relatively long period.

Part of a silviculture strategy to increase short term harvest levels could be to fertilize suitable stands 10 to 15 years prior to harvest to boost existing stand volumes. Currently Bark Beetles are dictating where we harvest so scheduling harvests 10 years into the future would be difficult and risky. Fertilization to date has been limited to second growth spaced and pruned stands. Recent observations, after fertilization, have shown large branch size increases immediately above the lifted crown giving the trees an unbalanced appearance. Further research and analysis of existing data needs to be carried out in this area prior to implementation of a large fertilization program.

A potential strategy to accomplish an increase in harvest levels could be to increase the allowable cut in the short term by borrowing timber from the long term. This would reduce the timber lost to natural and catastrophic events including fire, pests and decay in the large stock of existing mature timber. Strategies to increase long-term harvests include increasing regenerated stand volumes and increasing the timber harvesting land base through rehabilitation of non-merchantable stands.

Potential Strategies by Response Time Frame

Response Time Frame	Potential Volume Strategies	Anticipated Result
◆ Short Term	1. Assess site productivity to confirm or refute contention of underestimation of managed Pli stand yields. 2. Re-evaluate dry-belt Fdi if supported by studies currently underway. 3. Fertilize suitable existing stands scheduled for harvest in 2nd decade to increase volumes. If current bark beetle problem under control only. 4. Continue juvenile spacing excessively dense stands to ensure conversion of possible smallwood areas to conventional AAC. 5. Commercial thinning stands at age 55 or beyond to increase yields and supply small wood products to market.	1. Maintain post TSR partitioned AAC for marginal stands into 2nd decade. Monitor smallwood licenses for 15 years. 2. Increase post TSR conventional AAC 10%.
◆ Mid Term	1. Continue programs 3 & 4 & 5 above if supported by studies and analysis currently underway. 2. Rehabilitate or re-classify all or significant portion of the 43 000 ha of dry-belt Douglas-fir currently classified as non-merchantable. 3. Increase regenerated stand yields 20% by: • reducing time to regeneration to 0 or 1 year; • using A class seed or better; • using large planting stock; • implementing a void management program to reduce TIPSY OAF1 by 5%; • Increase planting densities.	As above.

Response Time Frame	Potential Volume Strategies	Anticipated Result
	4. Complete the regeneration of backlog sites and bring to free growing status as quickly as possible.	
◆ Long Term	As above, except fertilization of existing stands is phased out because existing stands are now largely replaced with regenerated stands.	1. Convert marginal stand AAC into conventional AAC over approx. 150 years. 2. Maintain conventional AAC at 1 325 000 m3/yr, a 43% increase above base case forecast of 925 000 m3/yr. Sources: • 0 yrs Regen delay 5% • Dfi rehabilitation 5% • regen stands incr 20% • small wood stnds 20% Total 50%

2.4.4 Opportunities to Improve Timber Quality

While pruning is declining in the district, mainly because of the higher densities being prescribed in Pli spacing regimes, there is a fair amount of second entries remaining on those stands where a 3 m lift was not attained. These become a high priority to complete so pruning activities will continue to increase over the next few years and then decline.

If all pruning opportunities on sites greater than site index 17.5 were considered over a long term, about 200 hectares would be available for pruning on an annual basis. For a diversified portfolio, something less than steady state (100 hectares?) should annually be considered for pruning in the longer term.

While incremental spacing "can" increase the timber quality and value, it can also decrease those attributes along with the stand volume. Spacing significantly increases the risk of large limbs resulting in decreased value. The potential for losses from pests, abiotic factors and fire (short term) are also significantly increased. The steady stead level for all incremental spacing in the TSA is about 900 hectares. To reduce risk and diversify the portfolio, something less than the steady state (500 hectares?) should be targeted for incremental spacing annually in the longer term. Also, spaced stands should not be targeted for fewer than 1200 sph unless accompanied by pruning.

2.4.5 Habitat Supply

The Merritt TSA has been targeted for locating sites and development of a habitat improvement plan focusing on wintering sites in NDT4. Habitat improvement potentially including spacing is to be investigated.

2.4.6 SH Tables for Merritt TSA

For the Merritt TSA, following are tables 2A for Enhanced Forestry, 2B for Backlog Reforestation and 2C for details regarding studies, research or miscellaneous projects.

Merritt TSA

Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$6,000	300	ha	300	300	300	300	$20	30	0	0	$30,000
SM Prescriptions	$37,500	750	ha	750	750	750	750	$50	150	0	0	$187,500
Spacing	$223,000	300	ha	300	300	[illegible]	300	$743	888	0	300	$1,115,000
Pruning	$120,000	200	ha	250	250	100	100	$600	908	0	200	$540,000
Fertilization	$45,000	150	ha	150	150	200	300	$300	27	3900	150	$285,000
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$45,000	50	ha	100	100	125	150	$900	225	0	0	$472,500
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$190,000	4	#	2	2	2	2	#######	950	0	0	$570,000
Other*	$0	0	xx	0	0	0	[illegible]	$0	0	0	0	$0
Total Priority 1	**$666,500**								3178	3900	650	$3,200,000
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$300,000	500	ha	500	500	500	500	$600	1480	0	500	$1,500,000
Pruning	$100,000	100	ha	100	100	100	100	$1,000	454	0	100	$500,000
Fertilization	$46,000	150	ha	200	200	300	300	$307	27	3900	150	$352,667
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
Total priority 2	**$446,000**								1961	3900	750	$2,352,667
Summary - Priority 1 + 2												
Surveys	$6,000	300	ha	300	300	300	300	$20	30	0	0	$30,000
SM Prescriptions	$37,500	750	ha	750	750	750	750	$50	150	0	0	$187,500
Spacing	$523,000	800	ha	800	800	800	800	$654	2368	0	800	$2,615,000
Pruning	$220,000	300	ha	350	350	200	200	$733	1362	0	300	$1,040,000
Fertilization	$91,000	300	ha	350	350	500	600	$303	54	7800	300	$637,667
Forest Health*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$45,000	50	ha	100	100	125	150	$900	225	0	0	$472,500
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$190,000	4	#	2	2	2	2	#######	950	0	0	$570,000
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
Total	**$1,112,500**								5139	7800	1400	$5,552,667

Merritt TSA
Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$62,000	3076	ha	2295	1010	540	553	$20	308	16495	0	$150,646
Prescriptions	$500	10	ha	10	0	0	0	$50	2	0	0	$1,000
Site Preparation	$7,000	10	ha	10	0	0	0	$700	10	0	0	$14,000
Plant	$66,000	110	ha	10	0	0	0	$600	231	13585	0	$72,000
Seedlings	$2,500	10	K	10	0	0	0	$250	3	221	0	$5,000
Brushing	$50,000	100	ha	100	200	200	100	$500	261	1625	0	$350,000
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$150,000	100	ha	100	100	100	100	$1,500	95	12350	0	$750,000
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
Total Priority 1	**$338,000**								909	44276	0	$1,342,646
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	0	0	0	0	$0	0	0	0	$0
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
									0	0	0	$0
Summary - Priority 1 + 2												
Surveys	$62,000	3076	ha	2295	1010	540	553	$20	307.6	16495	0	$150,646
Prescriptions	$500	10	ha	10	0	0	0	$50	2	0	0	$1,000
Site Preparation	$7,000	10	ha	10	0	0	0	$700	9.5	0	0	$14,000
Plant	$66,000	110	ha	10	0	0	0	$600	231	13585	0	$72,000
Seedlings	$2,500	10	K	10	0	0	0	$250	3.4	221	0	$5,000
Brushing	$50,000	100	ha	100	200	200	100	$500	261	1625	0	$350,000
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$150,000	100	ha	100	100	100	100	$1,500	95	12350	0	$750,000
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
Total	**$338,000**								910	44276	0	$1,342,646

Merritt TSA
SH Studies, Reasearch Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2002/03 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
Livestock impacts on reforestation and biodiversity - Tolko	$50,000	1	Year 3 of ongoing project to quantify and identify sources of seedling damage and riparian (biodiversity) impacts from livestock and other agents.	1	$120,000
Pl stand density/mammal study	$70,000	1	Continuation, monitoring, and remeasurement of current study.	2	$245,000
Pl stand dynamics study	$65,000	1	Continuation current studies on Pl branch, taper, and density relationships.	1	$100,000
Pothole/Dry Belt Fir study	$5,000	1	Continuation, monitoring, and remeasurement of current studies.	2	$70,000
	$0	2		0	$0
	$0	2		0	$0
TOTAL	$190,000	1	Found in the enhanced forestry tables.	0	$535,000

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	23,763
Hectares SR but not FG	23,195
Hectares prescribed - NSR	110
Hectares not prescribed - NSR	458

Post Free Growing	hectares/yr
Steady State level of incremental spacing	800
Steady State level of pruning for value	160
Optimal level of fertilization	220
Optimal level of habitat improvement	50

Background	
Annual harvest area - 5 yr average	6,000
Planting (% of harvest)	80.00
Natural Regen (% of harvest)	20.00

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	Not	Available	0
Age Class 2 ha	0	0	0
Age Class 3 ha	0	0	0

Part 2.5
Okanagan TSA

2.5.1 Basic Data

Land Area

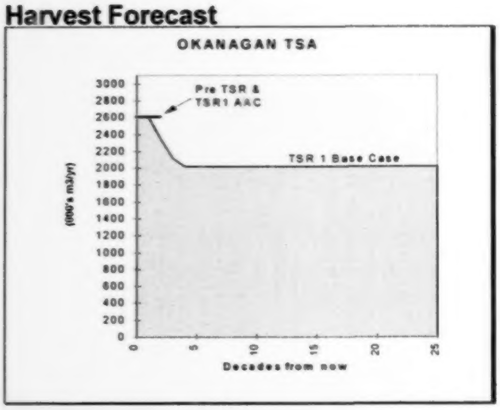
Description	Area (ha)	Area %
Total Area of TSA	2 173 300	100
Total Productive Crown Forest	1 403 300	65
Net Timber Harv. Land Base	1 039 100	48

Source: TS analysis report - rounded to nearest 100 ha

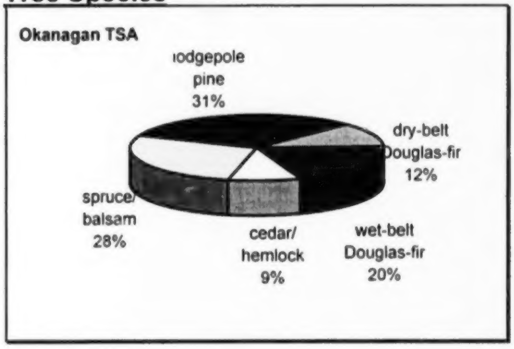
AAC

AAC Type	Pre-TSR (m^3)	TSR1* (m^3)	Change (%)
Conventional	2 615 000	2 615 000	0.0
Deciduous	-	-	-
Insect/Disease	-	-	-
Marginal	-	-	
Total	2 615 000	2 615 000	0.0

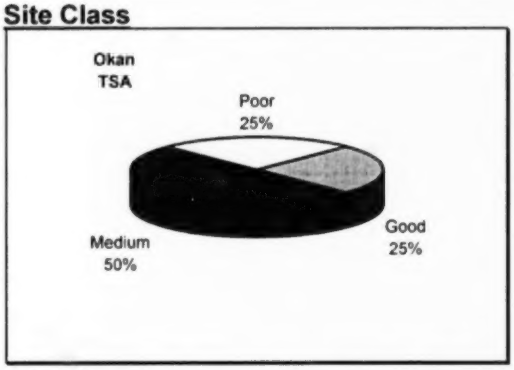
Harvest Forecast



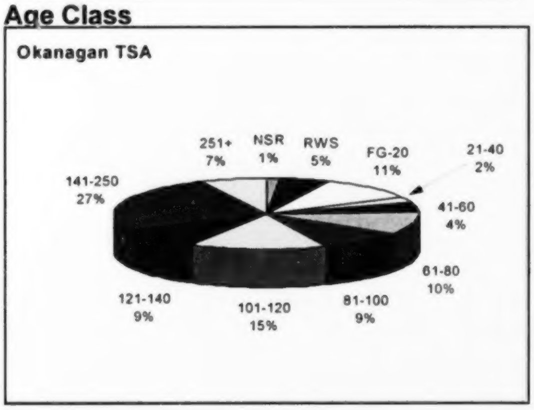
Tree Species



Site Class



Age Class



2.5.2 Issues

TSA timber supply is sensitive to green-up constraints. Anything reducing green-up timeframes will increase available timber supply. Community watershed issues may limit some treatment opportunities (e.g.- fertilization). Spacing opportunities in the ICH and wetter IDF subzones are limited by the presence of root rot. An LRMP process is taking place in the TSA and the resulting constraints and land use decisions may affect future harvest levels and issues.

2.5.3 Opportunities to Increase Timber Supply

The harvest forecast for the Okanagan TSA is very sensitive to existing stand volumes being overestimated. A fertilization program to increase the harvests from existing stands would guard against the possibility of over-estimated volumes and extend the current harvest levels further into the future. Backlog and incremental reforestation enhance timber supply by putting NSR areas back into forest production.

A juvenile spacing program in younger stands will help to ensure that managed stand yields can be achieved. This program is concentrated in the southern half of the TSA due to the presence of root rot in the ICH and wetter IDF subzones. However, potential exists to space these stands with retention of higher stocking levels in anticipation of mortality from root rots.

In the timber supply analysis, substantial reductions were made to regenerated stand volumes through increased TIPSY OAF1 and OAF2 factors. There are opportunities to increase long term timber supply through obtaining higher and more uniform stocking in these stands and through overcoming losses to root rots.

	Potential Volume Strategies	**Okanagan TSA**
Response Time Frame	**Strategy/Action**	**Anticipated Result**
◆ Short Term	1. Fertilize all suitable stands 10 years in advance of final harvest or commercial thinning. 2. Continue spacing excessively dense stands to ensure managed stand yields are achieved. 3. Complete backlog reforestation program and bring to free growing status as quickly as possible. 4. Through an accelerated forest health program, reduce unsalvageable mortality and growth losses. 5. Fill plant (incremental plant) holes and gaps in areas considered satisfactorily stocked.	Extend current harvest levels.

	Potential Volume Strategies	**Okanagan TSA**
Response Time Frame	**Strategy/Action**	**Anticipated Result**
◆ Mid Term	1. Continue programs 1 and 2 above.	Extend the current harvest level.
◆ Long Term	2. Increase regenerated stand volumes by: • Repeat fertilization of suitable stands. • Ensure full stocking of all regenerated stands. • Manage forest health issues, reducing OAF2. • Use of Class A seed or better on all planted stands.	Increase long term harvest levels eliminating the drop from current harvest levels.

2.5.4 Opportunities to Improve Timber Quality

While incremental spacing "can" increase the timber quality and value, it can also decrease those attributes along with the stand volume. Spacing significantly increases the risk of large limbs resulting in decreased value. The potential for losses from pests, abiotic factors and fire (short term) are also significantly increased. The steady stead level for all incremental spacing in the TSA is about 2,300 hectares. To reduce risk and diversify the portfolio, something less than the steady state (1,200 hectares?) should be targeted for incremental spacing annually in the longer term. Also, spaced stands should not be targeted for fewer than 1200 sph unless accompanied by pruning.

If all pruning opportunities on sites greater than site index 17.5 were considered over a long term, about 940 hectares would be available for pruning on an annual basis. For a diversified portfolio, something less than steady state (300 hectares?) should annually be considered for pruning in the longer term. In addition, a number of second entries remain on those stands where a 3 m lift was not attained.

2.5.5 Habitat Supply

In the Okanagan TSA, both Vernon and Penticton districts have been targeted for locating sites and development of a habitat improvement plans focusing on wintering sites in NDT4. Habitat improvement potentially including spacing and is to be investigated.

2.5.6 SH Tables for the Okanagan TSA

For the Okanagan TSA, following are tables 2A for Enhanced Forestry, 2B for Backlog Reforestation and 2C for details regarding studies, research or miscellaneous projects. There are three Ministry of Forests districts in this TSA and a set of tables is provided for each.

Salmon Arm District
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2002/03				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$15,900	530	ha	300	300	300	300	$30	53	0	0	$51,900
SM Prescriptions	$3.085	161	ha	1350	1350	1350	1350	$19	12	0	0	$106,557
Spacing	$16.500	15	ha	25	25	25	25	$1.100	44	0	15	$126.500
Pruning	$109.170	90.5	ha	100	75	50	50	$1.206	411	0	90.5	$440,902
Fertilization	$20,000	50	ha	1200	1200	1200	1200	$400	9	1300	50	$1,940,000
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$16,500	15	ha	20	25	25	25	$1,100	83	0	0	$121,000
Rehab (landings, etc)	$0	0	ha	100	100	100	100	$0	0	0	0	$0
Studies*	$2,000	50	#	100	100	100	100	$40	10	0	0	$18,000
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$183,155	911.5							622	1300	155.5	$2,804,859
Priority 2 Works												
Surveys	$5,000	175	ha	0	0	0	0	$29	18	0	0	$5,000
SM Prescriptions	$10,000	300	ha	0	0	0	0	$33	40	0	0	$10,000
Spacing	$55,000	50	ha	0	0	0	0	$1,100	148	0	50	$55,000
Pruning	$150,000	150	ha	0	0	0	0	$1,000	681	0	150	$150,000
Fertilization	$100,000	250	ha	0	0	0	0	$400	45	6500	250	$100,000
Forest Health	$30,000	1000	ha	0	0	0	0	$30	150	13000	0	$30,000
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$350,000	1925							1082	19500	450	$350,000
Summary - Priority 1 + 2												
Surveys	$20,900	705	ha	300	300	300	300	$30	70.5	0	0	$56,900
SM Prescriptions	$13,085	461	ha	1350	1350	1350	1350	$28	52.34	0	0	$116,557
Spacing	$71,500	65	ha	25	25	25	25	$1,100	192.4	0	65	$181,500
Pruning	$259,170	240.5	ha	100	75	50	50	$1,078	1091.87	0	240.5	$590,902
Fertilization	$120,000	300	ha	1200	1200	1200	1200	$400	54	7800	300	$2,040,000
Forest Health*	$30,000	1000	ha	0	0	0	0	$30	150	13000	0	$30,000
Habitat*	$16,500	15	ha	20	25	25	25	$1,100	82.5	0	0	$121,000
Rehab (landings, etc)	$0	0	ha	100	100	100	100	$0	0	0	0	$0
Studies*	$2,000	50	#	100	100	100	100	$40	10	0	0	$18,000
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$533,155								1704	20800	605.5	$3,154,859

VERNON FOREST DISTRICT
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys			ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$20,000	450	ha	350	350	350	350	$44	80	0	0	$82,222
Spacing	$270,000	450	ha	300	300	300	300	$600	1332	0	450	$990,000
Pruning	$10,000	20	ha	20	20	20	20	$500	91	0	20	$50,000
Fertilization	$10,000	50	ha	0	0	0	0	$200	9	1300	50	$10,000
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$30,000	0	#	0	0	0	0	$0	150	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$340,000								1662	1300	520	$1,132,222
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
									0	0	0	$0
Summary - Priority 1 + 2												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$20,000	450	ha	350	350	350	350	$44	80	0	0	$82,222
Spacing	$270,000	450	ha	300	300	300	300	$600	1332	0	450	$990,000
Pruning	$10,000	20	ha	20	20	20	20	$500	90.8	0	20	$50,000
Fertilization	$10,000	50	ha	0	0	0	0	$200	9	1300	50	$10,000
Forest Health*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$30,000	0	#	0	0	0	0	$0	150	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$340,000								1662	1300	520	$1,132,222

Penticton District
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$30,000	200	ha	500	1000	1500	1500	$150	36	5200	200	$705,000
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$50,000	100	ha	100	100	100	100	$500	250	0	0	$250,000
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$80,000								286	5200	200	$955,000
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$50,000	50	ha	50	50	50	50	$1,000	227	0	50	$250,000
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$50,000								227	0	50	$250,000
Summary - Priority 1 + 2												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$50,000	50	ha	50	50	50	50	$1,000	227	0	50	$250,000
Fertilization	$30,000	200	ha	500	1000	1500	1500	$150	36	5200	200	$705,000
Forest Health*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$50,000	100	ha	100	100	100	100	$500	250	0	0	$250,000
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$130,000								513	5200	250	$1,205,000

Salmon Arm District
Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2002/03				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$90,600	3720	ha	3000	2000	1000	500	$24	372	19949	0	$248,906
Prescriptions	$0	0	ha	20	20	20	20	$0	0	0	0	$0
Site Preparation	$27,720	36	ha	20	20	20	20	$770	34	0	0	$89,320
Plant	$56,715	132.5	ha	50	50	10	10	$428	278	16363.8	0	$108,080
Seedlings	$31,784	94.1	K	50	50	10	10	$338	32	2079.61	0	$72,316
Brushing	$191,473	276	ha	200	150	75	10	$694	720	4485	0	$493,251
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$398,292	4258.6							1437	42877	0	$1,011,873
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	0	0	0	0	$0	0	0	0	$0
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
									0	0	0	$0
Summary - Priority 1 + 2												
Surveys	$90,600	3720	ha	3000	2000	1000	500	$24	372	19949	0	$248,906
Prescriptions	$0	0	ha	20	20	20	20	$0	0	0	0	$0
Site Preparation	$27,720	36	ha	20	20	20	20	$770	34.2	0	0	$89,320
Plant	$56,715	132.5	ha	50	50	10	10	$428	278.25	16364	0	$108,080
Seedlings	$31,784	94.1	K	50	50	10	10	$338	31.994	2080	0	$72,316
Brushing	$191,473	276	ha	200	150	75	10	$694	720.36	4485	0	$493,251
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
									1437	42877	0	$1,011,873

VERNON FOREST DISTRICT
Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$120,000	6000	ha	5000	5000	5000	5000	$20	600	32175	0	$520,000
Prescriptions	$12,000	200	ha	0	0	0	0	$60	40	0	0	$12,000
Site Preparation	$35,000	25	ha	0	0	0	0	$1,400	24	0	0	$35,000
Plant	$10,000	20	ha	40	0	0	0	$500	42	2470	0	$30,000
Seedlings	$17,000	25	K	0	0	0	0	$680	9	552.5	0	$17,000
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$194,000								714	35198	0	$614,000
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	0	0	0	0	$0	0	0	0	$0
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
									0	0	0	$0
Summary - Priority 1 + 2												
Surveys	$120,000	6000	ha	5000	5000	5000	5000	$20	600	32175	0	$520,000
Prescriptions	$12,000	200	ha	0	0	0	0	$60	40	0	0	$12,000
Site Preparation	$35,000	25	ha	0	0	0	0	$1,400	23.75	0	0	$35,000
Plant	$10,000	20	ha	50	0	0	0	$500	42	2470	0	$30,000
Seedlings	$17,000	25	K	0	0	0	0	$680	8.5	553	0	$17,000
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$194,000								714	35198	0	$614,000

Penticton District
Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$100,000	6500	ha	6500	6500	6500	6500	$15	650	34856	0	$500,000
Prescriptions	$25,000	350	ha	350	350	350	350	$71	83	0	0	$125,000
Site Preparation	$10,000	10	ha	10	10	0	0	$1,000	10	0	0	$30,000
Plant	$50,000	100	ha	100	100	50	50	$500	210	12350	0	$200,000
Seedlings	$40,000	100	K	100	100	50	50	$400	34	2210	0	$160,000
Brushing	$45,000	50	ha	50	50	0	0	$900	131	812.5	0	$135,000
Spacing	$255,000	300	ha	300	300	300	300	$850	888	0	300	$1,275,000
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$525,000								2005	50229	300	$2,425,000
Priority 2 Works												
Surveys	$20,000	1500	ha	1500	1500	1500	1500	$13	150	8044	0	$100,000
Prescriptions	$10,000	150	ha	150	150	150	150	$67	33	0	0	$50,000
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	0	0	0	0	$0	0	0	0	$0
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$130,000	150	ha	150	150	150	150	$867	444	0	150	$650,000
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$160,000								627	8044	150	$800,000
Summary - Priority 1 + 2												
Surveys	$120,000	8000	ha	8000	8000	8000	8000	$15	800	42900	0	$600,000
Prescriptions	$35,000	500	ha	500	500	500	500	$70	116.666667	0	0	$175,000
Site Preparation	$10,000	10	ha	10	10	0	0	$1,000	9.5	0	0	$30,000
Plant	$50,000	100	ha	100	100	50	50	$500	210	12350	0	$200,000
Seedlings	$40,000	100	K	100	100	50	50	$400	34	2210	0	$160,000
Brushing	$45,000	50	ha	50	50	0	0	$900	130.5	813	0	$135,000
Spacing	$385,000	450	ha	450	450	450	450	$856	1332	0	450	$1,925,000
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$685,000								2633	58273	450	$3,225,000

Salmon Arm District
SH Studies, Reasearch Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2002/03 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
Louisiana Pacific is proposing some grizzly or caribou habitat enhancement.	$18,500	2	Enhancement of caribou or grizzly habitat through spacing and or pruning of existing second growth stands. This is expected to be an ongoing project with similar dollars spent each year as stands reach an appropriate size and age.	5	$92,500
	$0	2		0	$0
	$0	2		0	$0

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	33,500
Hectares SR but not FG	32,591
Hectares prescribed - NSR	0
Hectares not prescribed - NSR	549

Post Free Growing	hectares/yr
Steady State level of incremental spacing	50
Steady State level of pruning for value	200
Optimal level of fertilization	1,200
Optimal level of habitat improvement	25

Background	
Annual harvest area - 5 yr average	0
Planting (% of harvest)	1.00
Natural Regen (% of harvest)	0.00

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	0	0	0
Age Class 2 ha	0	0	0
Age Class 3 ha	0	0	0

VERNON FOREST DISTRICT
SH Studies, Research Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2001/02 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
Weyco fertilizer trial	$30,000	2	growth response of Sx to fertilizer treatment-Weyco project	3	$60,000
	$0	2		0	$0
	$0	2		0	$0

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	20000*
Hectares SR but not FG	20000**
Hectares prescribed - NSR	50***
Hectares not prescribed - NSR	0

Post Free Growing	hectares/yr
Steady State level of incremental spacing	300
Steady State level of pruning for value	0*
Optimal level of fertilization	0
Optimal level of habitat improvement	0

pruning for value

Background	
Annual harvest area - 5 yr average	3,000
Planting (% of harvest)	0.80
Natural Regen (% of harvest)	0.20

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	0	0	0
Age Class 2 ha	0	0	0
Age Class 3 ha	0	0	0

*after this field season[estimate]
**brushing complete on pre87 after this year
***offsite pl rehab

Penticton District

SH Studies, Reasearch Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2001/02 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
Incremental Silviculture of Lodgepole Pine	$40,000	2	Continuation of a 8 year study integrating density management, optimum nutrition, wildlife habitat and range forage.	0	$0
	$0	2		0	$0
	$0	2		0	$0

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	0
Hectares SR but not FG	0
Hectares prescribed - NSR	0
Hectares not prescribed - NSR	0

Post Free Growing	hectares/yr
Steady State level of incremental spacing	0
Steady State level of pruning for value	0
Optimal level of fertilization	0
Optimal level of habitat improvement	0

Background	
Annual harvest area - 5 yr average	0
Planting (% of harvest)	1.00
Natural Regen (% of harvest)	0.00

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	0	0	0
Age Class 2 ha	0	0	0
Age Class 3 ha	0	0	0

Part 2.6
Interfor IFPA

The Merritt IFPA does not have any Sustainable Harvest recommendations for this year. Tables and text are not applicable.

Part 2.7
Merritt IFPAs

The Merritt IFPA does not have any Sustainable Harvest recommendations for this year. Tables and text are not applicable.

Part 2.8
TFL 15 - Weyerhaeuser

No written submissions were received regarding Sustainable Harvest activities in TFL 15. A Type 1 Silviculture Strategy is being completed for this management unit and it is hoped that textual information will be provided at that time. SH tables for TFL 15 follow.

2.8.1 Basic Data

2.8.2 Issues

2.8.3 Opportunities to Increase Timber Supply

2.8.4 Opportunities to Improve Timber Quality

2.8.5 Habitat Supply

2.8.6 SH Tables for TFL 15

TFL 15
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$5,000	50	ha	50	50	50	50	$100	20	0	0	$25,000
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$1,000	1	ha	25	25	25	25	$1,000	5	0	1	$101,000
Fertilization	$5,000	15	ha	15	15	15	15	$333	3	390	15	$25,000
Forest Health	$5,000	5000	ha	5000	5000	5000	5000	$1	25	65000	0	$25,000
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$20,000	1	#	1	0	0	0	$20,000	100	0	0	$40,000
Other* (IDF Protocols	$25,000	1	xx	1	1	0	0	$25,000	125	0	0	$75,000
	$61,000								277	65390	16	$291,000
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$0								0	0	0	$0
Summary - Priority 1 + 2												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$5,000	50	ha	50	50	50	50	$100	20	0	0	$25,000
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$1,000	1	ha	25	25	25	25	$1,000	4.54	0	1	$101,000
Fertilization	$5,000	15	ha	15	15	15	15	$333	2.7	390	15	$25,000
Forest Health*	$5,000	5000	ha	5000	5000	5000	5000	$1	25	65000	0	$25,000
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$20,000	1	#	1	0	0	0	$20,000	100	0	0	$40,000
Other*	$25,000	1	xx	1	1	0	0	$25,000	125	0	0	$75,000
	$61,000								277	65390	16	$291,000

TFL 15
Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$1,000	50	ha	50	50	50	50	$20	5	268	0	$5,000
Prescriptions	$4,000	55	ha	55	55	55	55	$73	13	0	0	$20,000
Site Preparation	$11,250	25	ha	5	5	5	5	$450	24	0	0	$20,250
Plant	$0	0	ha	51.2	5	5	5	$0	0	0	0	$0
Seedlings	$12,800	51.2	K	5	5	5	5	$250	17	1131.5	0	$17,800
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing - avoid repress	$10,000	12	ha	50	50	50	50	$833	36	0	12	$176,667
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$39,050								95	1400	12	$239,717
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	0	0	0	0	$0	0	0	0	$0
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$0								0	0	0	$0
Summary - Priority 1 + 2												
Surveys	$1,000	50	ha	50	50	50	50	$20	5	268	0	$5,000
Prescriptions	$4,000	55	ha	55	55	55	55	$73	13.3	0	0	$20,000
Site Preparation	$11,250	25	ha	5	5	5	5	$450	23.75	0	0	$20,250
Plant	$0	0	ha	51.2	5	5	5	$0	0	0	0	$0
Seedlings	$12,800	51.2	K	5	5	5	5	$250	17.4	1132	0	$17,800
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$10,000	12	ha	50	50	50	50	$833	35.52	0	12	$176,667
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$39,050								95	1400	12	$239,717

TFL 15

SH Studies, Reasearch Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2001/02 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
	$0	2		0	$0
Sheep Recovery Plan	$10,000	2	Facilitate bighorn sheep recovery through access management planning.	1	$10,000
??	$20,000	2	Continuation of project started in 1999/00 and 2001/02	0	$40,000
PFT Analysis	$25,000	2	Problem Forest Type Analysis. Impeded Pli stands occupy SI50 12-22 sites that are curently out of THLB. These stands should be rolled into THLB and rehabilitated. This project will identify which stands to roll into THLB and quatify the rehab opportunities	0	$75,000
	$0	2		0	$0
	$0	2		0	$0
	$0	2		0	$0

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	0
Hectares SR but not FG	0
Hectares prescribed - NSR	0
Hectares not prescribed - NSR	0

Post Free Growing	hectares/yr
Steady State level of incremental spacing	0
Steady State level of pruning for value	0
Optimal level of fertilization	0
Optimal level of habitat improvement	0

Background	
Annual harvest area - 5 yr average	0
Planting (% of harvest)	1.00
Natural Regen (% of harvest)	0.00

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	0	0	0
Age Class 2 ha	0	0	0
Age Class 3 ha	0	0	0

Part 2.9
TFL 18 – Slocan Forest Products

Supporting text and documentation has not been received. However, a Type 1 Silviculture Strategy is being prepared for the TFL and supporting documentation will be available through that document. Backlog, Enhanced Forestry and SH studies proposed for TFL 18 are included in the following tables.

2.9.1 Basic Data

2.9.2 Issues

2.9.3 Opportunities to Increase Timber Supply

2.9.4 Opportunities to Improve Timber Quality

2.9.5 Habitat Supply

2.9.6 SH Tables for TFL 18

TFL18
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$5,000	80	ha	50	50	50	50	$63	20	0	0	$17,500
Spacing	$20,000	18	ha	20	20	20	20	$1,111	53	0	18	$108,889
Pruning	$50,000	40	ha	40	40	40	40	$1,250	182	0	40	$250,000
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$8,000	10	ha	10	10	10	10	$800	40	130	0	$40,000
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$5,000	1	#	0	0	0	0	$5,000	25	0	0	$5,000
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$88,000								320	130	58	$421,389
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$100,000	80	ha	80	80	80	80	$1,250	363	0	80	$500,000
Fertilization	$50,000	120	ha	200	200	200	200	$417	22	3120	120	$383,333
Forest Health	$0	0	ha	0	C	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$150,000								385	3120	200	$883,333
Summary - Priority 1 + 2												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$5,000	80	ha	50	50	50	50	$63	20	0	0	$17,500
Spacing	$20,000	18	ha	20	20	20	20	$1,111	53.28	0	18	$108,889
Pruning	$150,000	120	ha	120	120	120	120	$1,250	544.8	0	120	$750,000
Fertilization	$50,000	120	ha	200	200	200	200	$417	21.6	3120	120	$383,333
Forest Health*	$8,000	10	ha	10	10	10	10	$800	40	130	0	$40,000
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$5,000	1	#	0	0	0	0	$5,000	25	0	0	$5,000
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$238,000								705	3250	258	$1,304,722

TFL18
Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$50,000	2000	ha	2000	2000	2000	2000	$25	200	10725	0	$250,000
Prescriptions	$5,000	80	ha	0	0	0	0	$63	17	0	0	$5,000
Site Preparation	$20,000	20	ha	20	20	0	0	$1,000	19	0	0	$60,000
Plant	$50,000	50	ha	30	30	30	30	$1,000	105	6175	0	$170,000
Seedlings	$14,000	40	K	35	35	35	35	$350	14	884	0	$63,000
Brushing	$70,000	70	ha	50	50	50	0	$1,000	183	1137.5	0	$220,000
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$209,000								537	18922	0	$768,000
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	0	0	0	0	$0	0	0	0	$0
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$20,000	18	ha	20	20	20	20	$1,111	53	0	18	$108,889
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$20,000								53	0	18	$108,889
Summary - Priority 1 + 2												
Surveys	$50,000	2000	ha	2000	2000	2000	2000	$25	200	10725	0	$250,000
Prescriptions	$5,000	80	ha	0	0	0	0	$63	17	0	0	$5,000
Site Preparation	$20,000	20	ha	20	20	0	0	$1,000	19	0	0	$60,000
Plant	$50,000	50	ha	30	30	30	30	$1,000	105	6175	0	$170,000
Seedlings	$14,000	40	K	35	35	35	35	$350	14	884	0	$63,000
Brushing	$70,000	70	ha	50	50	50	0	$1,000	183	1138	0	$220,000
Spacing	$20,000	18	ha	20	20	20	20	$1,111	53	0	18	$108,889
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$229,000								590	18922	18	$876,889

TFL18

SH Studies, Reasearch Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2001/02 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
	$0	2		0	$0
Fertilization Trial Re-measurement	$5,000	2	Started in 1997 and data collected 1998, 2000 and due for re-measurement in 2002. Partially not in TFL18.	0	$0
	$0	2		0	$0
	$0	2		0	$0
	$0	2		0	$0

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	0
Hectares SR but not FG	0
Hectares prescribed - NSR	0
Hectares not prescribed - NSR	0

Post Free Growing	hectares/yr
Steady State level of incremental spacing	0
Steady State level of pruning for value	0
Optimal level of fertilization	0
Optimal level of habitat improvement	0

Background	
Annual harvest area - 5 yr average	0
Planting (% of harvest)	1.00
Natural Regen (% of harvest)	0.00

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	0	0	0
Age Class 2 ha	0	0	0
Age Class 3 ha	0	0	0

Part 2.10
TFL 33 – Federated

Due to the small program size on TFL 33, activities have been incorporated into the SH Tables for Federated Co-operatives Limited under FL A18670 under the Okanagan TSA tables. A Type 1 Silviculture Strategy has been prepared for the TFL which is expected to provide future guidance consistent with other priorities

Part 2.11
TFL 35 – Weyerhaeuser

Supporting text and documentation has not been received. However, Backlog, Enhanced Forestry and SH studies are proposed for TFL 35 and included in the following tables.

2.11.1 Basic Data

2.11.2 Issues

2.11.3 Opportunities to Increase Timber Supply

2.11.4 Opportunities to Improve Timber Quality

2.11.5 Habitat Supply

2.11.6 SH Tables for TFL 35

Weyerhaeuser - Kamloops Branch TFL 35
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$5,000	40	ha	40	40	40	40	$125	20	0	0	$25,000
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$25,000	100	ha	0	100	0	100	$250	18	2600	100	$75,000
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$2,500	2.5	ha	2.5	2.5	0	0	$1,000	2	308.75	0	$7,500
Studies*	$40,000	0.6	#	0.6	0.6	0	0	$66,667	200	0	0	$120,000
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$72,500								240	2909	100	$227,500
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$9,000	15	ha	15	15	15	0	$600	44	0	15	$36,000
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$9,000								44	0	15	$36,000
Summary - Priority 1 + 2												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$5,000	40	ha	40	40	40	40	$125	20	0	0	$25,000
Spacing	$9,000	15	ha	15	15	15	0	$600	44.4	0	15	$36,000
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$25,000	100	ha	0	100	0	100	$250	18	2600	100	$75,000
Forest Health*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$2,500	2.5	ha	2.5	2.5	0	0	$1,000	2.375	308.75	0	$7,500
Studies*	$40,000	0.6	#	0.6	0.6	0	0	$66,667	200	0	0	$120,000
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$81,500								285	2909	115	$263,500

Weyerhaeuser - Kamloops Branch TFL 35
Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$4,000	200	ha	300	300	300	0	$20	20	1073	0	$22,000
Prescriptions	$7,200	60	ha	70	70	70	0	$120	24	0	0	$32,400
Site Preparation	$19,375	25	ha	25	25	25	0	$775	24	0	0	$77,500
Plant	$17,100	30	ha	30	30	30	0	$570	63	3705	0	$68,400
Seedlings	$9,500	45	K	45	45	45	0	$211	15	994.5	0	$38,000
Brushing	$38,500	70	ha	70	70	70	0	$550	183	1137.5	0	$154,000
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$95,675								329	6910	0	$392,300
Priority 2 Works												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	0	0	0	0	$0	0	0	0	$0
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$13,100	20	ha	20	20	20	0	$655	59	0	20	$52,400
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$13,100								59	0	20	$52,400
Summary - Priority 1 + 2												
Surveys	$4,000	200	ha	300	300	300	0	$20	20	1073	0	$22,000
Prescriptions	$7,200	60	ha	70	70	70	0	$120	24	0	0	$32,400
Site Preparation	$19,375	25	ha	25	25	25	0	$775	23.75	0	0	$77,500
Plant	$17,100	30	ha	30	30	30	0	$570	63	3705	0	$68,400
Seedlings	$9,500	45	K	45	45	45	0	$211	15.3	995	0	$38,000
Brushing	$38,500	70	ha	70	70	70	0	$550	182.7	1138	0	$154,000
Spacing	$13,100	20	ha	20	20	20	0	$655	59.2	0	20	$52,400
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$108,775								388	6910	20	$444,700

Weyerhaeuser - Kamloops Branch TFL 35
SH Studies, Reasearch Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2001/02 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
	$0	2		0	$0
Lodgepole Pine Stand Dynamics	$70,000	2	Year 2 of 3 year proposal, to improve understanding of stand management on quantity and quality of final products	3	$150,000
	$0	2		0	$0
	$0	2		0	$0
	$0	2		0	$0

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	0
Hectares SR but not FG	0
Hectares prescribed - NSR	0
Hectares not prescribed - NSR	0

Post Free Growing	hectares/yr
Steady State level of incremental spacing	0
Steady State level of pruning for value	0
Optimal level of fertilization	0
Optimal level of habitat improvement	0

Background	
Annual harvest area - 5 yr average	0
Planting (% of harvest)	1.00
Natural Regen (% of harvest)	0.00

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	0	0	0
Age Class 2 ha	0	0	0
Age Class 3 ha	0	0	0

Part 2.12
TFL 49 – Riverside

1. Introduction

This five year (2001 – 2006) Resource Management Plan has been prepared for the Management Unit of TFL 49 as requested by Forest Renewal BC. This plan contains the tables required for the Sustainable Harvest Program, the Strengthening Sustainable Forest Management program and the Enhancing Environmental Values program.

2. Basic data on TFL 49

2.1 Location And Manufacturing Facilities

TFL 49 (approximately 144,000 ha) consists of three blocks (see Key Map). The TFL was designated as a result of an amalgamation in 1984 of Tree Farm Licences No. 9 (Block A), No. 16 (Block B), and No. 32 (Block C). Management on this area-based licence has been conducted for over 45 years. Block A is situated West of Okanagan Lake to the height of land between the Okanagan and Nicola drainages, and north of Lambly Creek, to the Naswhito Creek drainage. Block B adjoins the North West portion of Block A, runs West of Bouleau Lake, bounded on the South by the Salmon River drainage, to Salmon Lake, North to Monte Lake and West to the Monte Hills and Weyman Creek drainage. Block C is separate from the rest of the TFL. It is located north of Falkland and east of Pillar Lake towards the Salmon River.

Riverside's two main manufacturing facilities supplied by TFL 49 are located on the East side of Okanagan Lake at Armstrong and Kelowna. Logs that are not suitable for plywood manufacture, or do not fit our sawmill configuration, are generally sold or traded to other local manufacturers.

2.2 Timber Management Objectives

The short and long-term availability of timber on TFL 49 has been examined in the Timber Supply Analysis Report. The analysis evaluates how current management, and non-timber resources, affects the supply of harvestable timber over a 250-year period. It also quantifies the sensitivity of the results to uncertainty associated with modelling inputs. The timber supply analysis provides the technical basis for the Chief Forester of British Columbia to determine an AAC for TFL 49 for the term of this plan.

Riverside's management plan maintains the currently approved AAC of 380,000 cubic metres per year, not including unrecoverable losses. This goal is inclusive of the small business allocation of 36,905 cubic metres per year (9.7%). For the purposes of timber supply analysis, the objective is to maintain the harvest at or above the long run sustainable yield level. Short-term harvests may be above a basic sustainable level without compromising future harvests. The long-term objective of Riverside is to produce logs of suitable species and quality for the profitable manufacture of lumber and plywood.

3.0 Total Area

The total area of TFL 49 is 143,760 ha. This is composed of 1,449 ha of water, 6,887 ha of non-forest and non-productive land and 135,424 ha of productive forest land.

4.0 Current Harvest Forecast

The Current Management Option includes the following assumptions or inputs as defined in the Timber Supply Analysis Information Package:

- Management activity as defined by operations over the last 5 years;
- Implementation of the Forest Practices Code (FPC) as it was interpreted August 1997, including riparian management, stand level biodiversity, and low emphasis landscape biodiversity guidelines;
- An up-to-date Vegetation Resources Inventory (VRI);
- Partial implementation of adjustments for negative site index bias in old growth stands;
- VDYP natural stand yields and WinTIPSY managed stand yields;
- Current utilization standards;
- Visual quality objectives;
- Wildlife management;
- Genetic gains from tree improvement;
- Basic silviculture; and
- Consideration of problem forest types and forest health consistent with current management.

Figure 4.1 presents the harvest forecast resulting from the current management assumptions and the harvest flow assumptions discussed above. The current AAC of 380,000 m^3 can be maintained for two decades after which harvests decline through six decades to a minimum level followed by an increase to a long-term sustainable level of 290,000 m^3. Figure 4.1 also displays the theoretical long run sustainable yield figure based on managed stand yields. IRM constraints, which retain timber past culmination age, are the main cause of the difference between the theoretical value and attainable levels. Table 4.2 provides the actual harvest values used in Figure 4.1.

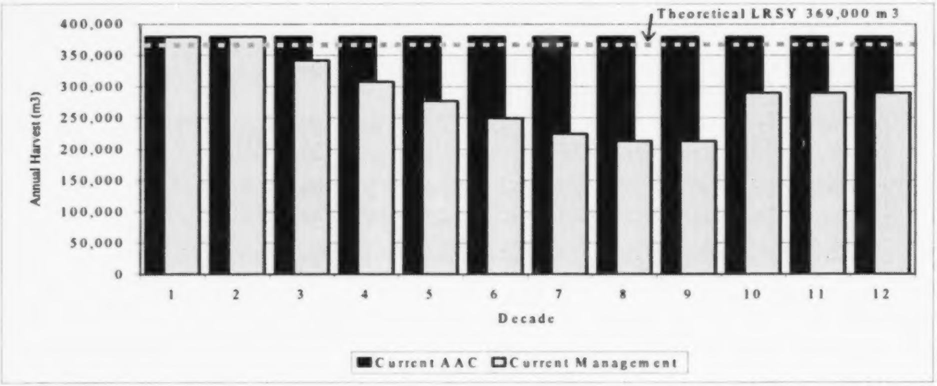


Figure 4.1 Current Management harvest schedule

Table 4.2 Harvest schedule – Current Management Option

Decade	Current AAC	Current Management
1	380,000	380,000
2	380,000	380,000
3	380,000	342,000
4	380,000	307,800
5	380,000	277,020
6	380,000	249,318
7	380,000	224,386
8	380,000	213,167

9	380,000	213,167
10	380,000	290,000
11	380,000	290,000
12	380,000	290,000

Table 4-3 Site Class Profile and Analysis Units

Analysis Unit #	Species	TSA Block	Site Index Class	Net Area (ha)	% of Net Land Base
1	Douglas-fir	A,B,C	1	4,905	3.92
2	(<= 140 years)		2	11,555	9.24
3			3	9,330	7.46
4	Pine	A,B,C	1	5,294	4.23
5	(<= 140 years)		2	21,669	17.33
6			3	20,834	16.66
7	Balsam	A,B,C	1	1,876	1.50
8	(<= 140 years)		2	4,801	3.84
9			3	4,927	3.94
10	Spruce	A,B,C	1	1,326	1.06
11	(<= 140 years)		2	4,171	3.34
12			3	2,948	2.36
31	Douglas-fir	A,C	1	625	0.50
32	(> 140 years)		2	3,321	2.66
33			3	2,838	2.27
34	Pine	A,C	1	791	0.63
35	(> 140 years)		2	3,061	2.45
36			3	1,624	1.30
37	Balsam	A,C	1	73	0.06
38	(> 140 years)		2	1,132	0.91
39			3	2,288	1.83
40	Spruce	A,C	1	1,452	1.16
41	(> 140 years)		2	4,256	3.40
42			3	3,131	2.50
51	Douglas-fir	B	1	125	0.10
52	(> 140 years)		2	910	0.73
53			3	3,044	2.43
54	Pine	B	1	48	0.04
55	(> 140 years)		2	438	0.35
56			3	433	0.35
57	Balsam (> 140 years)	B	1	15	0.01
58			2	50	0.04
59			3	415	0.33
60	Spruce	B	1	207	0.17
61	(> 140 years)		2	227	0.18
62			3	879	0.70
97	Deciduous	A,B,C	1	0	0
98			2	0	0
99			3	0	0
Total				125,022	100

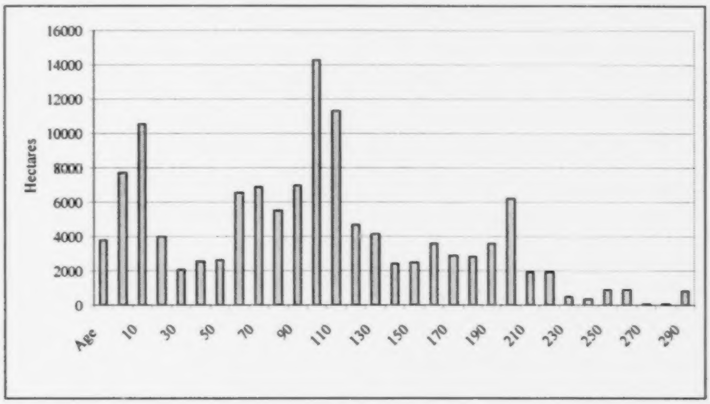


Figure 4.2 Age Class Profile

Table 4.4 Age class distribution

Leading Age	Area (ha)
0	3,782
10	7,743
20	10,549
30	4,025
40	2,042
50	2,563
60	2,593
70	6,560
80	6,902
90	5,519
100	6,955
110	14,273
120	11,331
130	4,662
140	4,146
150	2,380
160	2,478
170	3,603
180	2,869
190	2,846
200	3,585
210	6,212
220	1,910
230	1,952
240	484
250	333
260	893
270	869
280	46
290	91
300	825

5.0 Timber Supply Issues

5.1 Sensitivities

Sensitivities involving aggressive basic silviculture indicated no short-term effect. Switching to all regeneration by planting yields long-term benefits due to the increased productivity of the stands and pushes mid-term levels up slightly due to lower average culmination values. Two metre green-up significantly increases short-term harvest flexibility due to earlier availability of stands but can not overcome the problem of limited mature harvestable timber in the short-term. No harvest level benefits are realized. More stringent constraint regimes could change the balance and make aggressive basic silviculture a positive pressure.

Using 'current management' as the criteria, community watershed management was addressed in a sensitivity run. Application of a 20% maximum disturbance constraint, using a six-metre definition of green-up, in community watersheds has a relatively small negative short-term effect in the context of other current management assumptions.

The Land and Resource Management Plan process will deal with both biodiversity emphasis and the designation of protected areas. The LRMP is expected to be finalized in September, 2000. Until direction is provided it is speculative to consider the impacts. However several sensitivity analyses were prepared to investigate the possible effects on timber supply. The removal from the timber harvesting land base of Goal One Areas and Areas of Interest as defined for the Protected Areas Strategy (a 9% reduction to the net harvesting land base) has significant impacts throughout the analysis period. The way in which biodiversity constraints are being applied masks the impact of switching emphasis levels, and the sensitivities on this show little effect. If full implementation of the Biodiversity Guidebook were implemented the impact is severe and immediate (Figure 5.1).

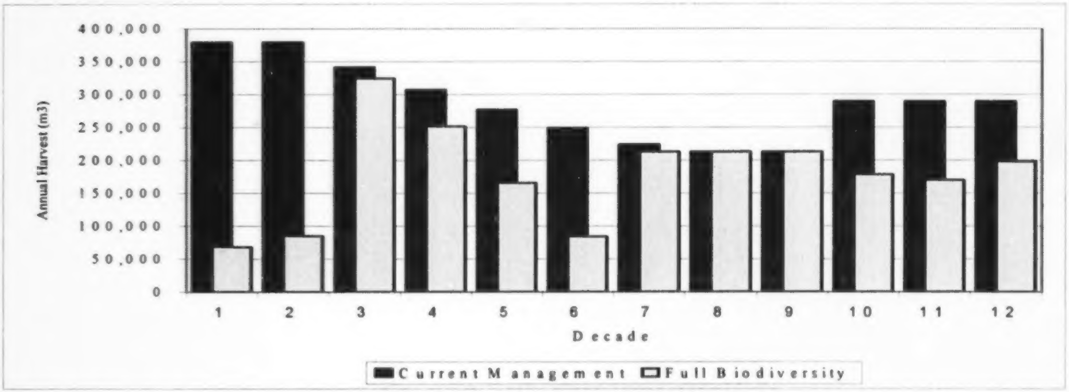


Figure 5.1 Full biodiversity constraints using a 45/45/10 average emphasis ***(from Timber Supply Analysis Report, February, 1998)***

Landscape biodiversity constraints applied at the subzone level, rather than the biogeoclimatic zone level, had little impact on the analysis. These are the only levels to which the biodiversity constraints could practically be applied on the TFL.

Wildlife tree patches, by virtue of their operational nature, are difficult to deal with in a strategic analysis. The full spectrum of structures able to contribute to stand level biodiversity can not be identified. By following the recognized methodology for determining a land base reduction for tree patches the need has likely been overestimated.

A sensitivity analysis setting a harvest priority for pine (98% of the harvest from pine stands in the first 50 years) indicated only a small mid-term positive impact. From an operational point of view, such a restriction is unrealistic.

The effect of partial harvesting on cover constraints in a forest level analysis is difficult to assess with certainty. Similarly, the productivity characteristics and future yields from partially harvested stands are very uncertain. One would expect the timber supply impacts from partial harvests to be a trade-off between long-term productivity losses and short term increases in operational flexibility. The balance will depend on the characteristics of the forest estate in question. The selective harvest sensitivity indicates no effect in the short-term, but does have a long-term impact.

From the Riverside Management Option as a base, positive pressures on short-term harvest levels include:

- Aggressive silviculture; and
- Wildlife tree patches.

Negative pressures on short-term harvests include:

- Community watersheds;
- Protected areas strategy; and
- Landscape biodiversity guidelines.

5.2 Information Gaps

Information gaps that contribute to uncertainty in the planning and management process of the Timber Supply Analysis for TFL 49 and that are considered within the scope of FRBC have been identified as follows:

- A rigorous inventory of streams, wetlands and lakes to FPC standards;
- Data to support the full implementation of adjustments for negative old growth site index bias.
- Completion of the Site Index Biogeoclimatic Ecosystem Classification project to correlate site index with the results of the recently completed Predictive Ecosystem Mapping project.
- Silviculture records including growth intercept data that will improve productivity estimates of plantations;
- Information on the impact on managed stand yields with respect to strict stocking control;
- Documentation of gains from successive generations of genetically improved seed;
- A rigorous methodology to confirm natural stand yields;
- Forest cover constraints for IRM based on the specific requirements and characteristics of TFL 49;
- Data to support revised estimates of unsalvaged losses; and
- Localized operational adjustment factors (OAFs) for managed stand yields.

6.0 Silviculture History

All stands age 30 or less were assigned to managed stand yield curves, reflecting the silviculture history of the licence. Please see Figure 6.1 below. Site preparation and planting began on the TFL in 1971. Stands older than 30 years will be assigned to the appropriate VDYP curves. All regenerated stands, natural or planted will be assigned to managed stand yields reflecting adherence to minimum stocking standards .

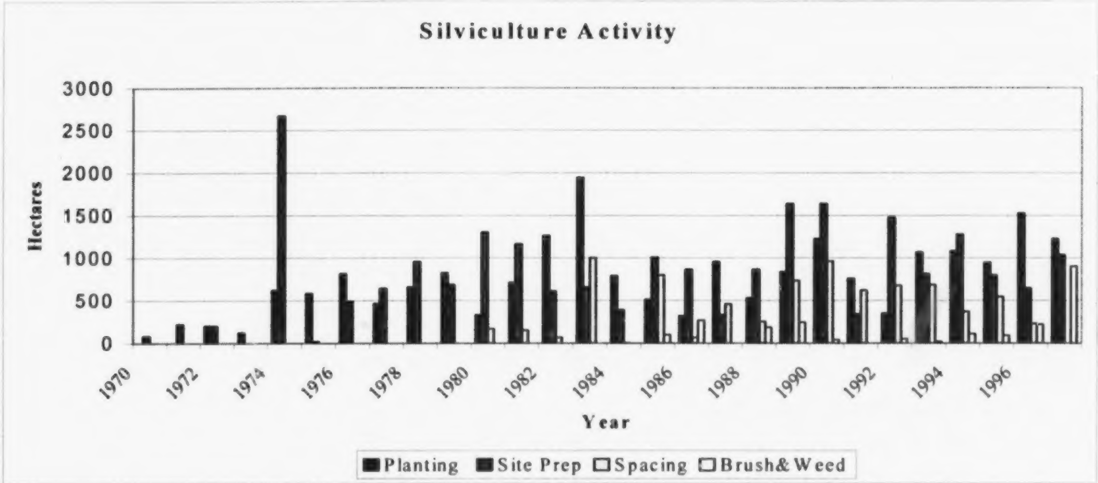


Figure 6.1 Silviculture History on TFL 49

7.0 Opportunities

The Enhanced Forest Management Project will be completed by March, 2000.
The following summary outlines the issues and opportunities that are anticipated. Once the project is complete, working targets will be available for the 2001/02 RMP. In the meantime, the plan for 2000/01 has been based on comparable programs of recent years.

7.1 Sensitivity Analysis

A sensitivity analysis will be completed to assess the impact of Forest Practices Code guidelines on:

- short and long-term timber availability;
- inventory and growth and yield database enhancements; and
- mitigative effects of enhanced silviculture activities and innovative harvesting techniques.

The Timber Supply Analysis has provided an initial sensitivity analysis using CASH_FM which will be supplemented by additional COMPLAN runs to take into account the spatial considerations.

A key objective of undertaking the sensitivity analysis will be the identification of management strategies which will provide the greatest benefit. In this way, it will be possible to prioritize the additional analysis that will be undertaken. Details of the sensitivity analyses follow:

7.2 Impact of FPC Guidelines

COMPLAN is being used to illustrate the impacts of the following FPC guidelines:

- various green-up standards for visual quality and hydrology;
- proposed Forest Ecosystem Networks (FENs);
- deer winter ranges;
- proposed marten corridors;
- lakeshore management zones; and
- proposed protected areas.

7.3 Inventory and Growth and Yield Database Enhancements

Preliminary analysis indicates that the volumes predicted by the VDYP model significantly underestimate the volume when compared with volume estimates obtained during cutting permit cruising. Furthermore, there is evidence that cruise volumes underestimate the delivered volumes measured at the weigh scale. If these two observations are correct, they have major implications for timber supply in TFL 49. At the current annual allowable cut of 380 000 m^3 per year, significantly less area is required to be harvested annually than that predicted in the Timber Supply Analysis. This will have the effect of extending the availability of mature timber so that the predicted shortfall in 60 to 70 years is mitigated.

A sensitivity analysis will be undertaken with COMPLAN to illustrate the effects that different levels of VDYP volume underestimation have on long-term timber supply. This analysis will be completed by modifying the yield tables to reflect increased volumes and will take into account any effects of spatial relationships and constraints.

There is also concern that the site index values for old growth stands are underestimated. While this does not have an effect on volumes realized from existing stands, it does have implications for height growth (i.e. green-up time), rotation age and volumes for second growth stands. The Timber Supply Analysis has completed a sensitivity analysis with respect to increased site index values as anticipated through the Old Growth Site Index project. Further analysis will be undertaken with COMPLAN to illustrate the effects on timber supply with full spatial resolution.

Several options can be undertaken to enhance the accuracy of the inventory and growth and yield databases. These include:

- a VDYP versus cruise volume study that will meet the requirements of the MoF;
- application of interim Old Growth Site Index (OGSI) adjustments throughout the TFL;
- an additional OGSI study to address balsam, fir and age class 6 and 7 stands; and
- field surveys to localize the operational adjustment factors (OAFs) used in TIPSY. The MoF is currently developing procedures for doing this.

7.4 Effect of Enhanced Silviculture Activities

Many different enhanced silviculture activities can be carried out on TFL 49. Several examples include:

- fertilization to reduce green-up times;
- shortening regeneration delay;
- increasing target and minimum stocking levels;
- using genetically improved seed;
- using improved site index information;
- using improved forest health information;
- pre-commercial thinning to provide commercial volume earlier in the rotation;
- commercial thinning to provide commercial volume earlier in the rotation;
- upgrading marginally stocked areas;
- site rehabilitation of stands with low productivity; and
- reducing site disturbance.

A sensitivity analysis is required to determine which of these activities can provide the greatest benefit in achieving the timber supply objectives of the TFL while providing adequate or improved levels of non-timber resource values. To complete this sensitivity analysis, it will be necessary to produce new yield tables that reflect the anticipated response of the stands to the various treatments. Research Branch has indicated willingness to assist with this task using the TASS/SYLVER model.

TASS/SYLVER provides a means to predict the effects of different initial spacing densities, pre-commercial spacing regimes and commercial thinning on volume and product mixes (i.e. log size distributions).

Once the yield tables have been produced, it will be possible to select those enhanced silviculture or mensurational activities that are anticipated to have the greatest benefit. COMPLAN will then be used to determine what effect spatial considerations have on realization of these benefits.

7.5 Sustainable Total Resource Management Plan Project

Introduction

The STRMP project was initiated in early 1999 to develop a sustainable total resource management model for TFL 49 that will improve forest land stewardship and make the *Forest Practices Code of B.C. Act* (FPC) more efficient without increasing environmental risks.

The study area for the Project is Riverside's TFL 49, which is located on the West side of Okanagan Lake, near the communities of Kelowna, Vernon, Falkland, and Westwold, in the Southern Interior region of British Columbia.

Objectives of the STRMP Project

The STRMP Project is designed for broad application, in both the short and long term. It will not exclusively benefit Riverside, as all resource values will be considered in this plan. The objectives of the Riverside (STRM) Project are to:

a) Manage environmental and timber values under a land-based model. Environmental values, such as habitat, old growth and seral stage, as well as annual harvesting, would be managed in terms of area;

b) Create an ecosystem based STRM model that will enable all of the forest and non forest resources on TFL 49 to be managed on a sustainable basis in the most efficient and cost effective manner possible; and,

c) Identify needed changes to the *Forest Practice Code of B.C. Act*, and a regulatory framework that reduces the administrative complexity of the FPC and pursues a more results-based, incentives driven FPC

Forest Renewal Projects

There are five projects proposed within the 2001-2006 SSFM program that are directly related to the STRMP Project. They are identified as TFL PILOT within the comment section of each project. Due to the innovative nature of the project, the activity categories provided do not necessarily provide the best fit. Most of the projects began in 2000/01 and are continuing into 2001 and beyond.

8.0 Proposed Programs

The SH, SSFM and EEV tables are contained in the Excel workbook file named ***TFL RMP Submission Tables.xlw.*** The program tables are linked to the key worksheet within the workbook named ***TFL 49 RMP Summary All***. The summary spreadsheet was used to ensure the worksheets balanced to the total FRBC allocation available to TFL 49.

The funding allocation for TFL 49 is $874,000 per year over the five year term of the MYA. Riverside has calculated from the Annual Advance Reconciliation Statement that the TFL allocation for 1999/00 year was under spent by $141,697. This will be made up for over two years, with an additional $91,697 applied to the allocation in 2001/2002 and an additional $50,000 in 2002/2003. This will be drawn from the TSA apportionment of the MYA which has been overspent by the same amount. The ***TFL RMP Summary All*** spreadsheet reflects this adjustment. The five year budget has been identified in the following worksheets within the workbook:

8.1 Sustainable Harvest Program

Enhanced Table worksheet – Table 2A
Backlog Table worksheet - Table 2B

8.2 Strengthening Sustainable Forest Management Program

SSFM Issue Table worksheet– Table 8A
SSFM Recommendation Table worksheet– Table 8B

8.3 Enhancing Environmental Values

EEV Tables worksheet – Activity Summary

This table has been drawn from the interim Kamloops Forest Region restoration plan template, August, 2000.

9.0 References

- Proposed Management Plan No. 3 (Jan. 1, 1999 – Dec. 31, 2003) TFL 49, Riverside Forest Products Limited, October 23, 1998.
- Timber Supply Analysis Report, TFL 49 Management Plan No. 3, Riverside Forest Products Limited, February, 1998.
- Timber Supply Analysis Information Package, TFL 49 Management Plan #3, Riverside Forest Products Limited, January, 1998.
- Proposed Enhanced Forest Management Project, TFL 49, Simons Reid Collins., April, 1998

TFL 49
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$11,500	383	ha	383	383	383	383	$30	38	0	0	$57,460
SM Prescriptions	$10,000	333	ha	333	333	333	333	$30	40	0	0	$49,960
Spacing	$32,500	43	ha	43	43	43	43	$750	128	0	43.3	$161,500
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$54,000								207	0	43	$268,920
Priority 2 Works												
Surveys		0	ha	0	0	0	0	$0	0	0	0	$0
SM Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$0								0	0	0	$0
Summary - Priority 1 + 2												
Surveys	$11,500	383.3	ha	383	383	383	383	$30	38.3	0	0	$57,460
SM Prescriptions	$10,000	333.3	ha	333	333	333	333	$30	40	0	0	$49,960
Spacing	$32,500	43.3	ha	43	43	43	43	$750	128	0	43	$161,500
Pruning	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Fertilization	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Forest Health*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$54,000								207	0	43	$268,920

TFL 49
Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys		0	ha	0	0	0	0	$0	0	0	0	$0
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$43,000	61	ha	61	61	61	61	$700	129	7586.4	0	$213,800
Seedlings	$9,000	30,000	K	30,000	30,000	30,000	30,000	$0	10200	663000	0	$45,000
Brushing	$24,500	31	ha	31	31	31	31	$800	80	497.7	0	$123,700
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$76,500								10409	671084	0	$382,500
Priority 2 Works												
Surveys		0	ha	0	0	0	0	$0	0	0	0	$0
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	0	0	0	0	$0	0	0	0	$0
Brushing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$0								0	0	0	$0
Summary - Priority 1 + 2												
Surveys	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Prescriptions	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$43,000	61.4	ha	61	61	61	61	$700	129	7586	0	$213,800
Seedlings	$9,000	30000	K	30000	30000	30000	30000	$0	10200	663000	0	$45,000
Brushing	$24,500	30.6	ha	31	31	31	31	$800	79.9	498	0	$123,700
Spacing	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$76,500								10409	671084	0	$382,500

TFL 49
SH Studies, Reasearch Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2001/02 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
	$0	2		0	
Monitoring - Part of the Pilot project	$0	2	this is Monitoring (adaptive management for criteria and indicators)	5	$120,000
	$0	2		0	$0
	$0	2		0	$0
	$0	2		0	$0
	$0	2		0	$0

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	0
Hectares SR but not FG	0
Hectares prescribed - NSR	0
Hectares not prescribed - NSR	0

Post Free Growing	hectares/yr
Steady State level of incremental spacing	0
Steady State level of pruning for value	0
Optimal level of fertilization	0
Optimal level of habitat improvement	0

Background	
Annual harvest area - 5 yr average	0
Planting (% of harvest)	1.00
Natural Regen (% of harvest)	0.00

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	0	0	0
Age Class 2 ha	0	0	0
Age Class 3 ha	0	0	0

Part 2.13
Thompson Okanagan SH Summary

Following is a summary of table 2A – Enhanced Forestry and table 2B – Backlog for the entire Thompson Okanagan Region of FRBC. Each of these tables tabulates the totals for all management units including TSAs, IFPAs and TFLs. The details in table 2C are not provided.

Thompson Okanagan Regional Sum
Enhanced Forestry - Table 2A

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$52,125	1,962	ha	1,303	1,161	1,224	1,163	$27	196	0	0	$180,981
SM Prescriptions	$145,863	2,624	ha	3,398	3,615	3,507	3,356	$56	583	0	0	$917,105
Spacing	$932,178	1,294	ha	1,329	1,216	1,244	1,317	$720	3831	0	1294	$4,609,516
Pruning	$409,330	676	ha	679	705	335	317	$606	3067	0	676	$1,643,077
Fertilization	$160,000	665	ha	2,055	2,565	3,015	3,115	$241	120	17290	665	$2,746,466
Forest Health	$238,000	15,110	ha	17,110	19,110	19,110	17,110	$16	1190	196430	0	$1,379,014
Habitat*	$111,500	165	ha	220	225	250	275	$676	558	0	0	$766,985
Rehab (landings, etc)	$8,333	5	ha	105	105	103	103	$1,667	5	618	0	$699,972
Studies*	$303,720	62	#	109	108	107	107	$4,931	1519	0	0	$2,424,829
Other*	$25,000	1	xx	1	1	0	0	$25,000	125	0	0	$75,000
	$2,386,049								11,193	214,338	2,635	$15,442,944
Priority 2 Works												
Surveys	$5,000	175	ha	0	0	0	0	$29	18	0	0	$5,000
SM Prescriptions	$33,747	704	ha	218	194	105	86	$48	135	0	0	$62,652
Spacing	$648,327	788	ha	780	801	653	614	$823	2332	0	788	$2,991,519
Pruning	$493,160	463	ha	496	439	281	273	$1,065	2102	0	463	$2,079,154
Fertilization	$196,000	520	ha	400	400	500	500	$377	94	13520	520	$874,462
Forest Health	$110,000	6,000	ha	6,000	7,000	7,000	6,000	$18	550	78000	0	$586,667
Habitat*	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$1,486,234								5,231	91,520	1,771	$6,599,454
Summary - Priority 1 + 2												
Surveys	$57,125	2137	ha	1303	1161	1224	1163	$27	214	0	0	$185,981
SM Prescriptions	$179,610	3328	ha	3616	3809	3612	3442	$54	718	0	0	$979,757
Spacing	$1,580,505	2082	ha	2109	2017	1897	1931	$759	6164	0	2082	$7,601,035
Pruning	$902,490	1139	ha	1175	1144	616	590	$793	5169	0	1139	$3,722,231
Fertilization	$356,000	1185	ha	2455	2965	3515	3615	$300	213	30810	1185	$3,620,928
Forest Health*	$348,000	21110	ha	23110	26110	26110	23110	$16	1740	274430	0	$1,965,681
Habitat*	$111,500	165	ha	220	225	250	275	$676	558	0	0	$766,985
Rehab (landings, etc)	$8,333	5	ha	105	105	102.5	102.5	$1,667	5	618	0	$699,972
Studies*	$303,720	62	#	108.6	107.6	107	107	$4,931	1519	0	0	$2,424,829
Other*	$25,000	1	xx	1	1	0	0	$25,000	125	0	0	$75,000
	$3,872,283								16,424	305,858	4,406	$22,042,398

Thompson Okanagan Regional Sum
Backlog Program - Table 2B

	2002/03 Plan			Future Goals				Performance Indicators - 2001/02				
	2002/03 Funding	2002/03 Goals		2003/04	2004/05	2005/06	2006/07	Avg. Unit Cost	Estimated Employment	M3/ha @ 65 years	ha of Value Increase	Five Year Cost Estimate
Priority 1 Works												
Surveys	$898,747	39,404	ha	31,209	28,719	24,772	18,453	$23	3940	211304	0	$3,251,514
Prescriptions	$78,250	933	ha	730	720	720	425	$84	261	0	0	$295,821
Site Preparation	$322,357	470	ha	280	220	130	55	$686	447	0	0	$792,175
Plant	$464,620	722	ha	781	446	306	206	$644	1516	89158	0	$1,583,937
Seedlings	$268,352	50,103	K	155,630	30,390	30,205	30,140	$5	17035	1107265	0	$1,587,898
Brushing	$754,494	1,031	ha	979	1,078	988	281	$732	2691	16753	0	$3,188,664
Spacing	$265,000	312	ha	350	350	350	350	$849	924	0	312	$1,454,103
Rehab (landings, etc)	$150,000	100	ha	120	120	120	100	$1,500	95	12350	0	$840,000
Studies*	$20,000	20	#	20	20	15	15	$1,000	100	0	0	$90,000
Other*	$76,755	300	xx	208	13	0	0	$256	384	0	0	$133,298
	$3,298,575								27,392	1,436,830	312	$13,217,410
Priority 2 Works												
Surveys	$27,926	1,961	ha	1,500	1,500	1,500	1,500	$14	196	10516	0	$113,370
Prescriptions	$10,000	150	ha	150	150	150	150	$67	33	0	0	$50,000
Site Preparation	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Plant	$0	0	ha	61	0	0	0	$0	0	0	0	$0
Seedlings	$0	0	K	36,720	0	0	0	$0	0	0	0	$0
Brushing	$10,000	20	ha	0	0	0	0	$500	52	325	0	$10,000
Spacing	$176,200	208	ha	210	210	210	170	$847	616	0	208	$853,892
Rehab (landings, etc)	$0	0	ha	0	0	0	0	$0	0	0	0	$0
Studies*	$0	0	#	0	0	0	0	$0	0	0	0	$0
Other*	$0	0	xx	0	0	0	0	$0	0	0	0	$0
	$224,126								897	10,841	208	$1,027,262
Summary - Priority 1 + 2												
Surveys	$926,673	41365	ha	32709	30219	26272	19953	$22	4136.5	221820	0	$3,364,885
Prescriptions	$88,250	1083.3	ha	880	870	870	575	$81	294.166667	0	0	$345,821
Site Preparation	$322,357	470	ha	280	220	130	55	$686	446.5	0	0	$792,175
Plant	$464,620	721.9286	ha	842.2	446	306	206	$644	1516.05	89158	0	$1,583,937
Seedlings	$268,352	50102.5	K	192350	30390	30205	30140	$5	17034.85	1107265	0	$1,587,898
Brushing	$764,494	1050.925	ha	979	1078	988	281	$727	2742.91425	17078	0	$3,198,664
Spacing	$441,200	520	ha	560	560	560	520	$848	1539.2	0	520	$2,307,995
Rehab (landings, etc)	$150,000	100	ha	120	120	120	100	$1,500	95	12350	0	$840,000
Studies*	$20,000	20	#	20	20	15	15	$1,000	100	0	0	$90,000
Other*	$76,755	300	xx	208	13	0	0	$256	383.775	0	0	$133,298
	$3,522,701								28,289	1,447,671	520	$14,244,673

Thompson Okanagan Regional Sum
SH Studies, Reasearch Needs and 'Other' Works - 2002/03 - Table 2C

* Name of Study, Project or Other Work	2001/02 Project Cost	Rank	Description, Rational, Comments, etc.	Years Needed to Complete	Total Project Cost
Lodgepole pine stand dynamics	$70,000	2	Year 2 of 3 year proposal, to improve understanding of stand management on quanity and quality of final product	3	$150,000
Dennis Lloyd BEC project	$0	2	BEC reclassification Project	0	$44,000
Louisiana Pacific is proposing some grizzly or caribou habitat	$18,500	2	Enhancement of caribou or grizzly habitat through spacing and/or pruning of existing second growth stands. This is expected to be an ongoing project with similar dollars spent	5	$92,500
Weyco fertilizer trial	$30,000	2	growth response of Sx to fertilizer treatment-Weyco project	3	$60,000
Incremental Silviculture of Lodgepole Pine	$40,000	2	Continuation of a 8 year study integrating density management, optimum nutrition, wildlife habitat and range forage.	0	$0
Livestock impacts on reforestation and biodiversity - Tolko	$50,000	1	Year 3 of ongoing project to quantify and identify sources of seedling damage and riparian (biodiversity) impacts from livestock and other agents.	1	$120,000
Pl stand density/mammal study	$70,000	1	Continuation, monitoring, and remeasurement of current study.	2	$245,000
Pl stand dynamics study	$65,000	1	Continuation current studies on Pl branch, taper, and density relationships.	1	$100,000
Pothole/Dry Belt Fir study	$5,000	1	Continuation, monitoring, and remeasurement of current studies.	2	$70,000
Seedling Protection Maintenance	$76,755	1	Maintenance of Vexars and Shade Cards on planted units	3	$149,444
Road and Landings Rehabilitation oppurtunities Study	$5,000	1	Survey roads and landings to identify oppurtunities for rehabilitation and the necessary treatments to restore site productivity	1	$5,000
Root Rot Study	$15,000	1	Initiate a study on the use of LW in the Lillooet TSA as a means to address armillaria root disease	3	$15,000
PROBE Sampling	$16,720	1	Remeasurement of established plots/ Establishment of new plots	5	$83,600
Sheep Recovery Plan	$10,000	2	Facilitate bighorn sheep recovery through access management planning.	1	$10,000
??	$20,000	2	Continuation of project started in 1999/00 and 2001/02	0	$40,000
PFT Analysis	$25,000	2	Problem Forest Type Analysis. Impeded Pli stands occupy SI50 12-22 sites that are curently out of THLB. These stands should be rolled into THLB and rehabilitated. This project will identify which stands to roll into THLB and quatify the rehab opportunities	0	$75,000
Fertilization Trial Re-measurement	$0	2	Started in 1997 and data collected 1998, 2000 and due for re-measurement in 2002. Partially not in TFL18.	0	$0
Lodgepole Pine Stand Dynamics	$70,000	2	Year 2 of 3 year proposal, to improve understanding of stand management on quantity and quality of final products	3	$150,000
Monitoring - Part of the Pilot project	$0	2	this is Monitoring (adaptive management for criteria and indicators)	5	$120,000
	$0	2		0	$0

Supporting Information for Sustainable Harvest as of 2001

Remaining Pre-October 1987	hectares
Total hectares not FG	151,762
Hectares SR but not FG	148,917
Hectares prescribed - NSR	1,845
Hectares not prescribed - NSR	2,554

Post Free Growing	hectares/yr
Steady State level of incremental spacing	2,590
Steady State level of pruning for value	985
Optimal level of fertilization	3,520
Optimal level of habitat improvement	275

Background	
Annual harvest area - 5 yr average	24,150
Planting (% of harvest)	0.88
Natural Regen (% of harvest)	0.12

Age/Site Data	Good	Medium	Poor
Age Class 1 ha	117,939	215,390	76,496
Age Class 2 ha	57,051	69,868	61,387
Age Class 3 ha	49,485	73,076	54,783

The above does not include TFLs.

Appendix 2A
Contacts and Referrals for SH Component of RMP

Management Unit	**Stakeholders Notified of Sustainable Harvest Draft Plan**
(TSA, TFL, IFPA)	(Name and/or Organization)
Kamloops Region	All MYA holders, IFPA holders, MOF, MSRM, FRBC
Kamloops TSA	Referrals to be done at time of prescriptions
Lillooet TSA	Ainsworth – Paul Christensen
Lillooet TSA	Ainsworth – Billy Poppy
Lillooet TSA	Ainsworth – Ted Sales
Lillooet TSA	Two Rivers – Gary Aitken
Lillooet TSA	Two Rivers – Chris O'Connor
Lillooet TSA	Two Rivers – Sue Huddart
Lillooet TSA	Alkali Lake Indian Band – Chief Andy Chelsea
Lillooet TSA	Bonaparte Indian Band – Chief Mike Retasket
Lillooet TSA	Bridge River Indian Band – Chief Dave Terry
Lillooet TSA	Canoe Creek Indian Band – Chief Larry Camille
Lillooet TSA	Cayoose Creek Indian Band – Chief Perry Redan
Lillooet TSA	Cook's Ferry Indian Band – Chief David Walkem
Lillooet TSA	Mt. Currie Indian Band (Creekside Resources)– Lyle Leo
Lillooet TSA	Fountain Indian Band (Xaxli'p) – Chief Art Adolph
Lillooet TSA	High Bar Indian Band – Chief Yvonne Smith
Lillooet TSA	Kanaka Bar Indian Band – Chief James Frank
Lillooet TSA	Lillooet Indian Band – Chief Mike Leach and Norm Leech
Lillooet TSA	Lytton First Nation – Chief Janet Webster
Lillooet TSA	Nooaitch Indian Band (Nicola Tribal Association) – Chief Dewey Shackelly
Lillooet TSA	Nicola Tribal Association – Chair George Saddleman
Lillooet TSA	Nicomen Indian Band – Chief Cyril Spence
Lillooet TSA	N'Quatqua Indian Band – Chief Harry O'Donaghey
Lillooet TSA	Oregon Jack Indian Band – Chief Bob Pasco
Lillooet TSA	Pavilion Indian Band (Ts'kw'aylaxw) – Chief Robert Shintah
Lillooet TSA	Seton Lake Indian – Chief Garry John
Lillooet TSA	Siska Indian Band – Chief Fred Sampson
Lillooet TSA	Skuppah Indian Band – Chief Doug McIntyre
Lillooet TSA	Toosey Indian Band – Chief Shirley Johnny-Grambush
Lillooet TSA	Whispering Pines Band – Chief Richard Lebourdais
Lillooet TSA	Nlaka'pamux Nation Tribal Council – Chair Robert Pasco
Lillooet TSA	Lillooet Tribal Council – Chairman Robert Shintah
Lillooet TSA	Fraser Canyon Tribal Administration – Chair John MacIntyre
Lillooet TSA	Stone Indian Band – Chief Dan Case
Merritt TSA	Nicola Tribal Association
Merritt TSA	Upper Nicola Indian Band
Merritt TSA	Upper Similkameen Indian Band
Merritt TSA	Riverside Forest Products

Management Unit	Stakeholders Notified of Sustainable Harvest Draft Plan
Merritt TSA	Tolko Industries Ltd.
Merritt TSA	Aspen Planers
Merritt TSA	Ardew Wood Products
Merritt TSA	Weyerhaeuser Company
Merritt TSA	Kamloops and District WL Association
OK TSA -Salmon Arm	Adams Lake IB
OK TSA -Salmon Arm	Little Shuswap IB
OK TSA -Salmon Arm	Spallumcheen IB
OK TSA -Salmon Arm	Neskonlith IB
OK TSA -Salmon Arm	Shuswap Nations
OK TSA -Salmon Arm	Riverside Forest Products, Riverside and Lumby
OK TSA -Salmon Arm	Tolko Industries
OK TSA -Salmon Arm	Federated Co-operative
OK TSA -Salmon Arm	Louisiana Pacific
OK TSA -Vernon	Okanagan Indian Band
OK TSA -Vernon	Spallumcheen Indian Band
OK TSA -Vernon	Weyerhauser, Lumby Division
OK TSA -Vernon	Riverside Forest Products, Riverside and Lumby
OK TSA -Vernon	Tolko Industries
TFL 15	Unknown*
TFL 18	None
TFL 33	No Recommendations and Not Applicable
TFL 35	Unknown*
TFL 49	Unknown*
Merritt IFPA	No Recommendations and Not Applicable
Interfor IFPA	No Recommendations and Not Applicable

* Referral list not received for inclusion.

Forest Renewal BC Resource Management Plan Thompson Okanagan Ground Rules - 1999-2004

Purpose

The purpose of ground rules is to clearly define regional commitments of Forest Renewal BC, Ministry of Forests, and Ministry of Environment, Lands and Parks in the development of Resource Management Plans (RMPs). The ground rules are applicable to RMP components which deal with three Forest Renewal BC Strategic Objectives (Sustainable Harvest (SH), Enhance Environmental Values (EEV), and Strengthen Sustainable Forest Management (SSFM)).

As a part of Forest Renewal BC's continuing efforts to satisfy components of the Strategic Plan for 1999 to 2003, the Resource Management Plan will also become a valuable source of information in the identification of Research priorities. A separate, detailed, needs analysis process, specific to the Research Program, will also occur. Final recommendations, including input from additional sources, will be made in September.

While preparing the RMP, technical specialists will identify the assumptions being made in recommending investment priorities. These assumptions may guide research funding where clarification is required to improve decision making abilities. A further opportunity exists in evaluating the efficacy of current and ongoing technical investments, to identify where successes are occurring, or changes in approach are appropriate. In this way, an iterative process occurs, leading to continuous improvement of assumptions.

Objectives to:

- Confirm preliminary Forest Renewal budget allocations;
- Confirm provincial and regional performance measures;
- Confirm regional specifics for RMP format, content, process, and time lines, within the overall framework of provincial RMP guidelines;
- Guide partner involvement in the RMP process;
- Identify the assumptions being made in identification of the investment priorities to guide research priorities,
- Guide communication and conflict resolution in the RMP process.

Background

Forest Renewal BC (FRBC) has contracted the Ministry of Forests (MoF) and Ministry of Environment, Lands and Parks (MELP) for the development of the RMP components within FRBC's mandate. The main deliverable will be a completed Resource Management Plan for the SH, EEV and SSFM strategic objectives.

Roles and Responsibilities

The Kamloops Region, Ministry of Forests (MoF) and Ministry of Environment Lands and Parks (MELP), as stewardship agencies, are responsible for identification and prioritization of resource management investment opportunities. This includes involvement of agreement holders and others with relevant technical expertise. FRBC Thompson Okanagan Region, as an investment agency, is responsible for selection of investments and for ensuring overall accountability of these investments. This includes informing interested parties (Industry, labour, First Nations, Environment, Community, and Government organizations) about the overall process and opportunities for involvement."

Reporting on Partner Involvement

An appendices will be included in the RMP indicating names and organizations of people on planning teams, people invited to provide input and/or feedback, and people who actually did provide input/feedback (by Strategic Objective). The ministries will retain all documentation of partner involvement, including meeting minutes, submissions of input, and feedback received, notes on comments received by phone, etc. This material is to be retained for two years for future RMP development reference.

Planning Teams

Planning Teams have been identified for the three Strategic Objectives, and each committee will be chaired by the responsible lead Ministry representative. The SH and SSFM Strategic Objectives committees will be chaired by the Ministry of Forests; MELP will co-chair the SSFM committee. The Ministry of Environment will chair the EEV Strategic Objective committee. The chairs will be responsible to:

1) ensure that the RMP objectives are addressed,
2) ensure meeting minutes are taken and circulated to each of the team members in a timely fashion,
3) establish a decision-making method to address an event where consensus cannot be achieved, decisions will be made in the manner selected by the Chair (e.g., majority vote).
4) Assign team leaders for any sub-committees as required.

RMP Performance Measures

The Ministry of Forests, Kamloops Forest Region, on behalf of both Ministries (MELP and MOF) will submit a draft RMP to the Thompson Okanagan Region by September 1, 2000 for review. The final RMP will be submitted on October 2, 2000.

Preliminary Budget Allocations
Refer to the attached table 1 for the preliminary budget allocations, by strategic objective and by management unit. The RMP will identify priority investment opportunities, which will represent approximately 130% of allocations.

Strategic Objective 1. – Sustainable Harvest

- *Increase the volume, value and health of second-growth forests.*
- *Increase the amount of land available for commercial timber production.*
- *Support more-informed silviculture investment decisions.*

Key Targets

Provincial Key Target	**Thompson Okanagan Key Target**
Over the next five years, the target is to increase the timber available for potential future harvest by 25 million cubic metres.	Over the next five years, the target is to increase the timber available for potential future harvest by 3.5 million cubic metres

The 1999 RMP proposes activities for 2000/2001 that would generate 800,000-m3 timber available for future harvest. Target for 2000-2003 is 2.7 million m3.

SO Performance Measures

Provincial Performance Measures	**Thompson Okanagan Performance Measures**	**1999 RMP**
1. The economic value of timber on all enhanced forestry treatment areas will be increased by between 5% and 30%.	1. The economic value of the stand on all enhanced forestry treatment areas will be increased by a minimum of 5%.	All enhanced forestry treatments that are proposed in the 1999 RMP will increase the value of stands by 5%. This will be measured by the comparison pre-treatment values to post treatment end values using current market value tables.

2. 25,000 hectares will be added back to the commercial forest base through surveys and planting.	2. 2,500 hectares will be added to the commercial forest base through surveys and planting by 2004.	431 hectares were added back to the commercial forest base through surveys and planting in 99/00. 2,069 hectares will be added to the commercial forest base through surveys and planting by 2004, of which 430 hectares being added in 2000/01 fiscal year.
3. 125,000 hectares of previously planted land will be brought to free-to-grow status.	3. 12,500 hectares of previously planted land will be brought to free-growing status by 2004.	14,635 hectares of previously planted land were brought to free to grow in 99/00. An additional 10,000 hectares will be brought to free growing by 2004, which will exceed the targets.
4. Silviculture investment decisions will be guided by forest-level stewardship plans in 100% of management units.	Four silviculture investment plans will be completed by 2001 to guide forest-level strategic plans in all 10 of the region's management units by 2004.	Three silviculture investment plans were completed in 1999/2000. The balance (7) will be addressed in 2000/2001.
5.	All backlog will be stocked by 2004	The 1999 RMP proposes to stock all backlog by 2004.
6.	Planned activities will be subject to "reasonable cost" analysis.	The proposed costs in the 1999 RMP are based on local averages.

The Resource Management Plan for Sustainable Harvest in the Thompson Okanagan will be prepared in accordance with the most recent version of the "*Resource Management Plan Guideline for Forest Renewal BC Sustainable Harvest Component*".

One plan will be prepared for each of the 11 management units in the Thompson Okanagan Region.

- Kamloops TSA
- TFL 18
- TFL 15
- Okanagan TSA
- TFL 35
- Merritt TSA
- Lillooet TSA
- TFL 33
- Merritt IFPA
- Interfor IFPA
- TFL 49

A separate plan will be developed for the woodlot licensees using an updated version of the 3-year Opportunity Plan developed in 1998/99. The Kamloops Region Woodlot Association will update the plan before August 31, 2000.

Planning Teams

MOF regional staff will develop a regional wide list of regional activities. District staff will develop the plans for each TSA. Licensees will provide a list of planned activities for TFLs and IFPAs. The MU RMP will be rolled up to the Regional level by MOF region. MELP will provide input at the Management Unit level. Industry and First Nations will be given an opportunity to review and comment.

Research issues and assumptions requiring review will be forwarded to the Regional Director, as they become available.

Target timelines:

- May 2000 – Planners consult with investment partners.
- June 2000 – Planners develop first draft.
- July - Refer draft plan to partner groups
- August - Develop second draft
- September 1 - First RMP draft for SH produced from sub-committee priorities
- September 1-15th Draft RMP circulated to defined partner groups for comment
- October 2 Final RMP submission identifying:

1. Priority 1 activities and projects to equal 90% of SH draft allocation,
2. Priority 2 activities and projects to equal 40% of SH draft allocation.

- 90% +40% = 130%

- **Strategic Objective 2 – Enhance Environmental Values (EEV)**
- *Invest in restoring forest watersheds and in promoting environmental stewardship and strong environmental values in BC's forests.*

Key Targets

Provincial Key Target	**Thompson Okanagan Key Target**
The target is to work with partners to complete restoration of 20 % of the highest priority watersheds that have been damaged or seriously threatened by past forest development activities. These watersheds will be restored by April 1, 2004.	Forest Renewal BC will work with its partners to complete restoration by April 1, 2004 of 20% of the highest priority watersheds in the Thompson Okanagan that have been damaged or seriously threatened by past forest development activities.

Provincial Performance Measures

- By April 1, 2000, the highest priority watersheds in each region will be identified on the basis of fisheries and aquatic resource values and the likelihood of success.
- There will be cleaner drinking water in more than 20 community watersheds.
- There will be an increase in the quality and quantity of fish habitat in the more than 120 watersheds.
- The number of community groups participating in the Watershed Restoration Program will be maintained or increased.
- Surveys will show that new knowledge and tools for watershed restoration and management are being developed and used.

Thompson Okanagan Performance Measures

The 1999 RMP identifies priority key watersheds for restoration based on fisheries and aquatic values in relation to past forest harvesting impacts. The list requires ongoing updating as knowledge gaps are filled and restoration work progresses. Further, the restoration efforts need to be focused on more select number of watersheds to ensure that restoration completion targets are met. To address these evolving needs, revised performance measures are needed for the year 2000 RMP.

Guidelines for a three-phase framework to focus the planning and priority-setting process are being developed by he 'Provincial Policy and Planning Co-ordination Team for the Watershed Restoration Program'. The framework follows 3 phases:

- Regional Priority Setting
- Selecting Target Watersheds
- Watershed Level Planning

This framework is incorporated into the revised Performance Measures for the Year 2000 RMP.

Research issues and assumptions requiring review will be forwarded to the Regional Director, as they become available.

1999 Thompson Okanagan Performance Measures	**1999 RMP Progress and Performance**	**Revised Performance Measures for Year 2000 RMP**
By April 1, 2000, the highest priority watersheds will be identified on the basis of fisheries and aquatic resource values and the likelihood of success	The base data which is used to define the key watersheds was refined during 1999, resulting in a revised list of 134 priority key watersheds.	Annual update of the Thompson Okanagan Watershed Committee Prioritisation Data Base.

By April 1, 2004, there will be cleaner drinking water in more than 5 community watersheds in the Thompson Okanagan	There are 62 watersheds with key water values (community watershed or >50 domestic licenses). Restoration work took place in 1999 in 20 of these watersheds. None were completed.	RMP will define at least 12 target restoration watersheds for improved water quality. A list of works required to complete restoration in each target watershed will be identified with cost estimates for completion
By April 1, 2004, there will be an increase in quality and quantity of fish habitat in 12 watersheds in the Thompson Okanagan.	There are 115 watersheds with key fish values. Restoration work took place in 1999 more than 40 watersheds with high fish values. One watershed is considered as having the WRP restoration works completed.	The RMP will define at least 23 target restoration watersheds for improved fish habitat. A list of works required to complete restoration in each target watershed will be identified with cost estimates for completion.
The number of community groups participating in the Watershed Restoration Program will be maintained at 12 or increased.	The number of community groups participating in the Watershed Restoration Program will be maintained at 12 or increased	The number of community groups participating in the Watershed Restoration Program will be maintained at 12 or increased
Surveys will show that new knowledge and tools for watershed restoration and management are being developed and used.	Channel monitoring to evaluate long term changes in channel morphology were initiated in 2 watersheds.	Routine effectiveness monitoring will be incorporated into ongoing restoration projects. Select watersheds will continue to be used for more intensive effectiveness monitoring.

The Resource Management Plans for Enhancing Environmental Values will be prepared consistent with the "Resource Management Plan Guidelines" and these ground rules.

Planning Teams

The EEV strategic objective will be chaired by the Ministry of Environment

1. Regional Partners are represented on the Thompson Okanagan Watershed Committee. The representation includes Forest Licensees, MOF, MELP, Shuswap Nations Fisheries Council, First Nations, Thompson Basin Fisheries Council, DFO, Nicola Watershed Stewardship Co-ordination, and the Fraser Basin Council. The TOWC, working for the good of the Region, will provide guidance and assistance to the RMP development.

2. The Regional Priority Setting will be accomplished through use of the TOWC Prioritisation Data Base. There are currently 134 'Priority Key Watersheds' identified in the database. These are considered as the highest priority watersheds against which the 20% target is measured.

3. Each MYA Licensee will be requested to select a maximum of 2 watersheds from the Priority Key Watershed List for each Planning Unit (or District) in which they operate. These watersheds will form the basis for the 'Target Watershed List' where restoration is expected to be completed by April 2004. The TOWC will review the Target Watershed List to ensure that the Performance Measures will be met if restoration is completed in these Target Watersheds. The TOWC will recommend the inclusion of additional watersheds on the list as needed to meet Performance Measures.

4. 'Restoration Plans' one restoration plan per MYA licensee, for a target watershed within their operating area, is expected to be completed by October 2000. The Restoration Plan will include a list of works required to complete restoration in target watersheds with cost estimates for those works. These works and costs will be included in subsequent RMP's.

5. A definition of completion for FRBC funded Watershed Restoration Program activities are being developed at the Provincial level. The definition will be reviewed by the TOWC.

6. At least 90% of the 2001/02 Thompson Okanagan Investment Plan for the EEV component will be in Target and Priority Key Watersheds as identified in the RMP, In the absence of completed restoration plans this year, the following funding levels will be followed in order to guide regional investment. A minimum funding level of 70% in "Target" watersheds," 20% in "Priority Key" watersheds" and 10% in "Other Priority" will be identified. This measure will ensure that adequate funding will be focused to ensure completion of 26 or 20% of the highest priority watersheds previously threatened by past forest development activities by April, 2004.

7. A regional EEV planning team (TOWC) chaired by MELP, will be responsible for the development of the Regional RMP. Representatives on the regional team will be the same membership of the TOWC.

8. The MELP rep will be responsible for production of the final document for inclusion into a Regional RMP.

Research issues and assumptions requiring review will be forwarded to the Regional Director, as they become available.

Target timelines:

- April 6, 2000 Regional workshop.
- April 17, TOWC meeting. EEV team organized with guidance from TOWC.
- May TOWC meeting to review Target Watershed Selections
- June 28 TOWC action plans developed for RMP development
- July 27 Watershed data base updated and circulated
- July 27 Draft RMP posted on MELP web site for review
- August 23 TOWC meeting to review comments
- September 1-15 Updated Draft RMP referral period
- October 2 Final submission of RMP to FRBC for approval.

Strategic Objective 3 – Strengthening Sustainable Forest Management (SSFM)

The Resource Management Plans for Strengthening Sustainable Forest Management will be prepared consistent with the "Resource Management Plan Guidelines" and these ground rules.

- Support the development of strategic resource planning and decision-making information and tools that are keyed to achieving sustainable forest management.

Key Targets

Provincial Key Target	Thompson Okanagan Key Target
The target is to work with partners to identify and address key knowledge needed for sustainable forest management. By April 1, 2004, key knowledge needs will be addressed to help improve future TSRs and implementation of strategic land use plans.	Forest Renewal BC will work with its partners to identify and address key knowledge needed for sustainable forest management. By April 1, 2004, key knowledge needs will be addressed to help improve future TSRs and implementation of strategic land use plans

Provincial Performance Measures

Forest Renewal will measure progress towards achieving this strategic objective by using indicators that describe how knowledge needs for key SFM issues were established and how well these needs were addressed.

Key Performance Measures

1. Quality of the RMP process and product - preliminary target is for 100% of regions to have an acceptable product and process by December 31, 2000
2. By March 31, 2002 surveys will be conducted by Forest Renewal to determine that the performance of SSFM investments is being routinely monitored and evaluated.
3. By March 31, 2004 surveys conducted by Forest Renewal will show that 70% of the SSFM investments (1999 - 2004) have been relevant , useable and timely with respect to identified issues (baseline - performance indicators and milestones identified in RMP)

Thompson Okanagan Performance Measures

The 1999 RMP identifies issues, works to address those issues and the relative priority of those works. However these issues, works and priorities are all time sensitive and change as knowledge gaps are filled. To address these evolving needs, revised performance measures are needed for the year 2000 RMP.

1999 Thompson Okanagan Performance Measures	**1999 RMP Progress and Performance**	*2000 Thompson Okanagan Performance Measures*
By April 1, 2000 key gaps will be identified regarding information requirements for the Okanagan and Lillooet TSAs and the IFPAs.	The 1999 RMP identified key knowledge gaps for each TSA, TFL and IFPA but are expected to evolve for 2000's RMP.	Quality of RMP process and product to be 100% acceptable as determined from FRBC survey, by December 31, 2000.
All gaps, including those identified in the Kamloops LRMP, will be prioritised based on timing, need and cost/benefit.	Works to address gaps were prioritised for the Kamloops LRMP, TFLs, developing LRMPs in the Okanagan and Lillooet TSAs and for the IFPAs.	By March 31, 2002 surveys will be conducted by Forest Renewal to determine that the performance of SSFM investments is being routinely monitored and evaluated.
100% of the gaps will be addressed by April 1, 2003.	Outside forces, lack of consensus, gaps with lesser priority, etc., make this measure impractical.	By March 31, 2004 surveys conducted by Forest Renewal will show that 70% of the SSFM investments (1999 - 2004) have

		been relevant , useable and timely with respect to identified issues (baseline - performance indicators and milestones identified in RMP)
Key gaps requiring additional research will be identified April 1, 2000. Further research needs may become apparent as planning continues.	The issue was addressed in the 1999 RMP and no research needs were identified. However, longer-term needs may not have received adequate assessment.	Research issues and assumptions requiring review will be forwarded to the Regional Director to determine future investments.
All transition activities which are not consistent with the Forest Renewal BC strategic objective, but for which funding is required to complete existing commitments will be honoured.	Transition works in progress were included in the 1999 RMP and ranked as high to very high priority.	All transition activities which are not consistent with the Forest Renewal BC strategic objective, but for which funding is required to complete existing commitments will be honoured.

Other Performance Measures:
SSFM investments increased the capacity of people and decisions/plans to address key SFM issues by:

- Working in partnership to identify key SFM issues
- Clarifying what needs to be done to address these issues and targeting knowledge investments strategically to link with decisions and strategic plan implementation
- Developing measures of success and performance indicators for investments related to each issue
- Monitoring these indicators and evaluating benefits of investments

Progress towards achieving this strategic objective will be measured partially by using qualitative indicators to assess increased capacity of people to address key issues. Therefore the RMP document itself and the processes used to develop it are key indicators of performance. The following is a checklist for evaluating the RMP process and product will be evaluated against objective indicators defined in the SSFM RMP planning document. Reporting on this will be public record and serve to meet public accountability requirements of Forest Renewal investments.

The Resource Management Plans for Strengthening Sustainable Forest Management will be prepared consistent with the "Resource Management Plan Guidelines" and these ground rules.

1. A separate plan will be prepared for each of the management units in the Thompson Okanagan Region. Applicable partner groups, working for the good of the unit, will determine the issues, key knowledge gaps, work and priorities to address these for each of the following management units.

Kamloops TSA	Okanagan TSA	Lillooet TSA	Merritt TSA
Interfor IFPA	Merritt IFPA	TFL 15	TFL 18
TFL 33	TFL 35	TFL 49	(Regional)

2. A separate plan will be prepared for the Thompson Okanagan Region to address issues and knowledge gaps that are regional in nature. Applicable partners will determine issues, key knowledge gaps, works and priorities to be addressed under annual funding at the regional level.

3. At least 90% of the 2001/02 Thompson Okanagan Investment Plan for SSFM will be derived from works identified in the RMP. Advance planning for the unit will be critical from all stakeholders. Work schedules for units are to be developed to cover five years, with those works eventually being translated into investment plans by proponent. Only unusual circumstances should cause the first year of the investment plan to deviate from the first year of the RMP.

Regional Planning Team

The SSFM strategic objective committee will be chaired by the Ministry of Forests and co-chaired by the Ministry of Environment, Lands and Parks. Suggested representation would be from the following:

- Regional MoF representative(s);
- Regional MELP representative(s),
- Industry representatives,
- The regional Interagency Management Committee (IAMC) Coordinator;
- Representatives from existing higher level planning committees as required;
- One MOF Research representative and extension representative from the SIFERP.
- Other technical resource people or committees on an as required basis
- Forest Renewal BC representative, and

The MOF for each team will be responsible for production of the final document for inclusion into a regional RMP. Priorities for SSFM need only be provided for the first year of the RMP.

Target Timelines:

June 27	Regional Steering Committee formed
July 14	Each MU to have team leaders identified and guidelines finalized.
July 19	Specialists and Participants meet to discuss regional priorities.
August 4	Progress reports from working groups
August 31	First RMP draft produced from sub-committee priorities
September 1-15th	Draft RMP circulated to defined partner groups for comment
October 2	Final RMP submission to FRBC:

1. Priority issues and projects (priority 1 = 90% of SSFM draft allocation
2. priority 2 = 40% of total SSFM draft allocation
- 90% + 40% = 130%

FOREST RENEWAL BC

Original Signed By: Chris Ortner Date: July 14, 2000

(Director - Authorized Signatory)
(Title)

MINISTRY OF FORESTS

Original Signed By: Frank Blom Date: July 12, 2000

(RSM - Authorized Signatory)
(Title)

MINISTRY OF ENVIRONMENT LANDS AND PARKS

Original Signed By: John Thompson Date: July 12, 2000

(Regional Director - Authorized Signatory)
(Title)

CHAPTER 3
ENHANCING ENVIRONMENTAL VALUES

3.1 OVERVIEW OF REGIONAL WRP ISSUES AND PRIORITIES

The Watershed Restoration Program (WRP) in the Thompson Okanagan region has been well supported, and although there are still many restoration activities left to be completed, the Program has achieved many successes. Each year, assessments, prescriptions and restoration works are completed in higher priority watersheds throughout the Region. These works are now focused almost exclusively in Target watersheds.

Watershed condition status has been detailed in the multitude of watershed specific assessments and restoration plans undertaken since the inception of the WRP in 1994. A significant number of watersheds in the region have been assessed as having high fish and water values and many of these are now being targeted for restoration completion. As shown in the summary tables in this RMP, much has been accomplished in the Program, but there are still considerable works required to take watersheds to Forest Renewal BC restoration completion.

A generalized list of typical watershed issues is provided below in the summary of issues identified in Higher Level Plans. This is followed by an overview of the Thompson Okanagan priorities.

3.1.1 Issues Identified in Higher Level Plans

Within the Southern Interior region, Land Use Planning has been a high priority activity for several years. Through the Thompson Okanagan Regional Plan, Forest Renewal BC partners have voiced the need to **"implement relevant strategies in Land and Resource Management Plans"**.

The Land and Resource Management Plan (LRMP) process, the successor to the Commission on Resources and Environment planning, is at various stages in 3 of the 4 Timber Supply Areas (TSA) which make up the Thompson Okanagan Forest Renewal BC Region. Covering Kamloops and Clearwater Forest Districts, the Kamloops LRMP was signed off by cabinet in July 1995 and includes recommendations on priority watershed restoration needs. Government in January 2001 approved the OKANAGAN LRMP, covering the Penticton, Vernon and Salmon Arm Forest Districts. This plan too includes recommendations for priority watershed restoration activities. The Lillooet LRMP was initiated in 1995, and the recently completed Phase 1 establishes the overall strategic direction for the planning area, which can be considered in the development of investment priorities. An LRMP process has not yet been started in the Merritt TSA. A variety of details and status information for the 3 active LRMP areas can be found on the 3 respective web sites. These are:

Kamloops	http://www.lrmp.gov.bc.ca/kamloops/
Okanagan	http://www.lrmp.gov.bc.ca/okanagan/
Lillooet	http://www.luco.gov.bc.ca/lrmp/lillooet/index.htm

A summary of the common LRMP themes relevant to Watershed Restoration is as follows:

a) Undertake watershed assessment of watersheds to address fisheries, domestic and irrigation water issues;
b) Identify environmentally sensitive, critical and degraded stream habitat for anadromous and resident fish as part of watershed assessment process;
c) Identify sediment sources which degrade fish habitat and/or water quality;
d) Undertake watershed restoration to restore degraded stream habitat and water quality as required and accelerate natural recovery. Restoration measures include: road deactivation, hill slope stabilization, replanting riparian areas, livestock fencing, replacement of large woody debris (LWD), rehabilitation of off-channel habitat, bank stabilization and channel stabilization;
e) Subject to public consultation, non-status roads should be deactivated or rehabilitated, as appropriate, with due consideration for:
    - anticipated level and type of use
    - values
    - safety risk
    - environmental risk
f) Emphasize management of temperature sensitive streams to reduce stream temperatures within the plan area to preference levels for salmon, trout and char and reduce mortality levels.
g) Restore depressed salmon and freshwater fish populations to the capability of the system and provide an adequate supply of well-distributed habitat to protect genetic diversity of fish stocks.
h) Rehabilitate and stabilize streambanks and restore the structural and functional integrity of riparian areas that have been impacted by urban development, and resource development activities such as agriculture, timber harvesting, mining, etc., on private lands. It is intended that this would apply to private land through voluntary stewardship agreements, in a cooperative manner with private land owners, etc.;
i) Utilize the Watershed Restoration Program in cooperation with other funding sources such as Fish Renewal BC and HCTF to achieve holistic watershed restoration;
j) Encourage all levels of government, local licensed resource users, and/or the public groups to develop and implement rehabilitation plans where needed;
k) Manage all activities near fish bearing streams to protect instream flow regimes necessary for the maintenance of fish and fish habitat;
l) Conserve and rebuild small and threatened stocks by protecting and restocking streams where small or threatened species are found.

3.1.2 Thompson Okanagan Watershed Prioritization Summary

Watershed Prioritization in the Thompson Okanagan began in 1998 with the preparation of the Thompson Okanagan Watershed Restoration Project map. This map utilizes watershed boundaries from the Watershed Atlas and incorporated existing project boundaries wherever possible. The map covers the entire Thompson Okanagan Forest Renewal BC Region and includes two hundred and fifty six (256) watershed units.

Criteria for prioritizing the watershed units were developed in conjunction with the Thompson Okanagan Watershed Committee (TOWC), which includes representation from the Ministries, DFO, Forest Renewal BC, Forest Industry, Aboriginal Bands / Tribal Associations and non-government organizations. The criteria include consideration of habitat value for nine (9) key fish species, domestic water use criteria (including community watersheds and domestic use licences) and level of impact from past forest harvesting.

Of the total number of Thompson Okanagan watersheds, one hundred and forty one (141) are currently defined as being 'Priority Key Watersheds'. These are the highest priority watersheds in the Region, based on high fish habitat and/or domestic water use values, which have been significantly impacted by forest harvesting.

Fifty nine (59) of the priority key watersheds have been selected as 'Target Watersheds' by the proponents (forest licensees). Restoration efforts are now being focused on the Target watersheds to ensure that the Forest Renewal BC goal of completing restoration in 20% of the highest priority watersheds is completed by April 1, 2004. Restoration Plans, which define the works required to complete the Forest Renewal BC eligible restoration work in these watersheds, are to be completed by October 31, 2001.

A more detailed explanation of the Regional Prioritization Criteria is given in Section 4.

3.2 SUMMARY OF THE PLANNING PROCESS

3.2.1 Thompson Okanagan Forest Renewal BC Regional Plan 1998-2005.

Guiding principles for the focusing of Forest Renewal BC investments started in 1997, when the Thompson Okanagan Region undertook a Regional Advisory Plan process to create a vision for the Region. In 1998, the "Thompson Okanagan Regional Plan 1998-2005" document was produced to summarize the findings of sub-regional meetings and forums.

The following table outlines the Action Plan that is relevant for, and has been carried forward to the 2002/2003 Enhancing Environment Values (EEV) strategic objectives:

Objective	Actions	Intended Results
Undertake restoration work on high priority watersheds within five years	**• Define watershed boundaries** **• set priorities for watershed restoration** **• undertake detailed assessment and restoration work**	**Initial restoration work on damaged watersheds and substantial restoration of highest priority watersheds.**

The Forest Renewal BC Strategic Plan and Summary 1999-2003 and the Forest Renewal BC Resource Management Plan, Thompson Okanagan Ground Rules 1999-2004 provide further direction as to how priorities may be determined and implemented.

3.2.2 Forest Renewal BC Thompson Okanagan Ground Rules – 1999-2004

The purpose of ground rules that were implemented in July 2000, and subsequently updated in May 2001 were to clearly define regional commitments of Forest Renewal BC, Ministry of Forests, and Ministry of Water, Land and Air Protection in the development of Resource Management Plans (RMPs).

Key Goals

Provincial Key Goal	Thompson Okanagan Key Goal
The target is to work with partners to complete restoration of 20 % of the highest priority watersheds that have been damaged or seriously threatened by past forest development activities. These watersheds will be restored by April 1, 2004.	Forest Renewal BC will work with its partners to complete[1] restoration by April 1, 2004 of 20% of the highest priority watersheds in the Thompson Okanagan that have been damaged or seriously threatened by past forest development activities.

Further more specific Thompson Okanagan Region ground rules and performance measures are detailed in Section 2.2.4.

3.2.3 Previous Resource Management Plans

During 1998, the Ministry of Forests (MOF) and the Ministry of Environment, Lands and Parks (MELP) undertook a planning process, with the involvement of partners, to develop resource management plans (RMP's) which provided resource stewardship direction for Forest Renewal BC investments. The first RMP for the 1999/2000 fiscal year was completed late in 1998. This RMP included development of a base map that delineated the entire Thompson Okanagan Region into watershed units which were ranked by MELP according to fish and water values and associated impacts to those values.

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[1] Completion for this Goal will be for the Forest Renewal BC focus on fisheries and aquatic values, and will only be for the Forest Renewal BC WRP eligible activities.

In 1999, MOF and MELP continued the development of standardized resource management plans that identify forest resource management objectives and priorities. The 2nd RMP for the Thompson Okanagan region (2000/2001 fiscal year) was completed and published in October 1999. The Enhancing Environmental Values (EEV) component was outlined in Volume III of that RMP. The plan was, "intended to guide proponents on regional project opportunities to ensure that the maximum resource values are derived from Forest Renewal BC investments while achieving the stated strategic objectives, performance measures, and targets for Enhancing Environmental Values". The previous watershed prioritization criteria were refined and standardized in consultation with the Thompson Okanagan Watershed Committee (TOWC) and a list of 113 'Priority Key Watersheds' was produced. Restoration efforts in 00/01 were to be focused on the priority key watersheds with transition out of the non-priority key watersheds.

The resource management planning process continued in 2000 with development of the 2001/2002 RMP. The Enhancing Environmental Values component was outlined in Part 5 of Volume II of that RMP. This EEV plan built on the previous two RMP's by maintaining the watershed units established for 99/00 and the prioritization criteria established for 00/01 with further refinement of the base data associated with each watershed unit. This resulted in the list of 'priority key watersheds' being revised to include a total of 139 watersheds. This RMP also introduced the concept of 'Target Watersheds'. Target watersheds are those priority key watersheds that are being targeted by the forest licensees for restoration completion to meet the Forest Renewal BC objective of completing restoration in 20% of the highest priority watersheds. 59 target watersheds were selected for 2001/02 to ensure that by April 1, 2004, we will have restored 20% (**26** watersheds as established in the 2000/01 RMP) of the highest priority watersheds previously damaged or seriously threatened by past forest development activities. A Restoration Plan (RP) which outlines the works and costs required to complete Forest Renewal BC eligible restoration is required for each target watershed by October 31, 2001.

3.2.4 2002/2003 Thompson Okanagan Ground Rules and Performance Measures

Thompson Okanagan Performance Measures	***1999 – 2001 RMP Progress and Performance***	***2001 - 2002 Planned Progress and Performance***	***Revised Performance Measures for Year 2002/03 RMP***
By April 1, 2000, the highest priority watersheds will be identified on the basis	*The base data which is used to define the key watersheds was refined during 1999 to 2001,*	*The database will continue to be updated.*	*The data base will continue to be updated and will be used to produce a map*

of fisheries and aquatic resource values and the likelihood of success	*resulting in a revised list of 140 priority key watersheds.*		*identifying the Target Watersheds and those completed to date.*
By April 1, 2004, there will be cleaner drinking water in more than 5 community watersheds in the Thompson-Okanagan	*There are 63 watersheds with key water values (community watershed or >50 domestic licenses). Restoration work has taken place during 1999 and 2000 in more than 20 of these watersheds and 22 have been selected as target watersheds. Restoration Plans which list the works required for completion and the associated costs are underway in the target watersheds.*	*Restoration Plans will be completed for Target watersheds and restoration work will continue as per the 01 / 02 Investment Plans.*	*Utilizing the required works and costs in the draft Restoration Plans, the RMP will define which watersheds are anticipated for completion by April 1, 2004. It is believed that completion of the works will result in cleaner drinking water.*
By April 1, 2004, there will be an increase in quality and quantity of fish habitat in 12 watersheds in the Thompson Okanagan.	*There are 121 watersheds with key fish values. Restoration work has taken place during 1999 and 2000 in more than 40 watersheds with high fish values and 52 have been selected as target watersheds. Restoration plans which list the works required for completion and the associated costs are underway in the Target watersheds.*	*Restoration Plans will be completed for Target watersheds and restoration work will continue as per the 01 / 02 Investment Plans.*	*Utilizing the required works and costs in the draft Restoration Plans, the RMP will define which watersheds are anticipated for completion by April 1, 2004. It is believed that completion of the works will result in improved fish habitat.*
The number of community groups participating in the Watershed Restoration Program will be maintained at 12 or increased.	*The number of community groups participating in the Watershed Restoration Program has been maintained at 12 or increased*	*The number of community groups participating in the Watershed Restoration Program will be maintained at 12 or increased through their involvement in the development of*	*The number of community groups participating in the Watershed Restoration Program will be maintained at 12 or increased through their involvement in the development of the Restoration Plans.*

		the Restoration Plans.	
Surveys will show that new knowledge and tools for watershed restoration and management are being developed and used.	*Routine Effectiveness Evaluation (REE) has been incorporated into ongoing restoration projects. Intensive Effectiveness Evaluation (IEE) projects relating to bio-technical soil stabilization, cross-ditch construction, channel monitoring and overall watershed restoration success have been initiated / completed in several watersheds.*	*REE will continue on all ongoing restoration projects. Select watersheds and/or watershed components will continue to be used for IEE.*	*REE will continue on all ongoing restoration projects. Select watersheds and/or watershed components will continue to be used for IEE.*

3.2.5 2002/2003 RMP Process

The 2002/2003 RMP is continuing to follow the three-phase framework to focus the planning and priority-setting which was adopted previously. The complete process is posted as the WRP Phase 3 watershed Level Planning Guidelines at: http://www.for.gov.bc.ca/cpp/rmp/wrp/

The three phases followed in the framework are:

- Regional Priority Setting
- Selecting Target Watersheds
- Watershed Level Planning (Restoration Plans)

Regional priority setting was initiated back in 1998 and 1999 through the creation of the Thompson Okanagan Watershed Restoration Map and the prioritization that was carried out in conjunction with the Thompson Okanagan Watershed Committee. There are ongoing adjustments to the base data used for the watershed prioritization as new assessments and works are completed. Revised base data can in turn alter the prioritization such that there are currently 141 priority key watersheds, up from 139 in the 2001/2002 RMP. There have also been minor adjustments to the base map to consolidate several small watersheds and to correct several boundary inconsistencies.

Target watersheds were selected in 2000 by the proponents (forest licensees) and were listed in the 2001/2002 RMP. Fifty nine (59) target watersheds were selected based on consideration of: partnerships, status of assessments and restoration work completed to date, level and type of impacts present in the watershed, harvesting plans and affordability.

Watershed Level Planning (via Restoration Plans) is underway in 2001 for most of the 59 Target watersheds, with a due date of October 31, 2001. The most significant change to the 2002/2003 RMP is the addition of costs to complete Forest Renewal BC eligible watershed restoration activities for all target watersheds for which the costs are available from Restoration Plans (refer to Table 5). Unfortunately, Restoration Plans are not due until after the deadline for submission of the RMP, so a revised Table 5 will have to be added as an Addendum in November or December of 2001.

3.2.6 Planning Team

The EEV strategic objective planning committee is chaired by the Ministry of Water, Land and Air Protection (MWALP) and co-chaired by the Ministry of Forests and takes guidance as required from the Thompson Okanagan Watershed Committee (TOWC). Regional Partners represented on the TOWC include Forest Licensees, MOF, MWALP, Shuswap Nations Fisheries Council, Aboriginal groups, Thompson Basin Fisheries Council, DFO, Nicola Watershed Stewardship Co-ordination, and the Fraser Basin Council. The TOWC, working for the good of the Region, provides guidance and assistance to the RMP development. RMP issues and direction have been discussed during TOWC meetings in January, March and May in 2001. The 1st draft was circulated to TOWC member on July 31, 2001 and reviewed at the August 28 TOWC meeting. The 2nd draft was circulated to all TOWC members for review on August 31 and comments received prior to the last week of September were incorporated into the final RMP document.

3.3 Watershed Restoration Projects Map

The watershed restoration projects map is also available digitally as a Adobe Acrobat (thomoka2.pdf) file or as a HP plot file (thomoka.hp) from the Ministries ftp site at: ftp://ftpkam.env.gov.bc.ca/pub/outgoing/wsrp/

3.4 Regional Prioritization Criteria

The watershed prioritization developed for this Resource Management Plan utilized the information and analysis developed by the Thompson Okanagan Watershed Committee.

The committee was established in April of 1999. It is comprised of representatives from:

Ministry of Water, Land and Air Protection (MWALP) (formerly part of Environment,
Land and Parks (MELP)

Ministry of Forests (MOF)
Department of Fisheries and Oceans (DFO)
Forest Renewal BC
Representatives for Aboriginal groups
Forest Industry
Fraser Basin Council
Thompson Basin Fisheries Council (Fisheries Renewal BC delivery agent)

A detailed membership list is included in EEV Appendix A.

The committee debated all aspects of the plan development including data needs, prioritization methods, consultation needs, and committee-input formats. Decision-making was by consensus although there were, and remain, concerns on the part of some participants over the changes to the overall program direction that remains limited to the focus of protecting, restoring and maintaining fisheries and water quality resources in priority key watersheds.

The process followed by the committee was based upon the premise that the resulting plan would look at restoration as an activity rather than a focus on the Watershed Restoration Program of Forest Renewal BC exclusively. As a first step the committee discussed and accepted four basic information needs for the prioritization of watersheds. These are:

- Measure of fish use
- Measure of domestic water consumption
- Chances for success
- Level of impacts to fish and water resource

The committee then borrowed from the EEV Resource Management Planning Guidelines and developed a list of regional target fish species and domestic water criteria. Development of this list was based upon inputs from the various committee members and provincial fisheries staff.

Key Fish Species

- Sockeye Salmon (So)
- Coho Salmon (Co)
- Chinook Salmon (Ch)
- Bull Trout (Bt)
- Westslope Cutthroat (Ct)
- Steelhead (St)
- Burbot (Bb)
- Special Rainbow Trout Stocks (Rb)
- Kokanee (Ko)

Each key species is given a 1, 2 or 3 rating for its value in each watershed in which it is present. A score of 3 denotes a watershed which is key to the species regionally, 2 denotes a watershed important to the species but not key, and 1 indicates watersheds where the species occurs but is not important to the species regionally owing to limited distribution or habitat availability. Initial information for species presence was derived from the FISS database with ratings and species presence updates compiled through interviews with provincial and federal fisheries staff.

Key watersheds for fish are those which are rated as having at least one key species with a rating of 3. Regional priority for fish is assigned as Very High (VH) if 2 or more species are rated as 3, High (H) if only 1 Species is rated as 3 and Moderate (M) if one or more species are rated as 2.

Domestic Water Criteria

- Community Watershed (CWS)status
- Volume of Domestic Use (longer term criteria)
- Number and type of water licenses (short term criteria)

Data collected for this component of the plan includes: number of domestic water licenses, and number of non-domestic licenses, presence of community waterworks, presence of a designated community Watershed and percentage of watershed designated as CWS. While it was the desire of the committee to use volumes as a measure of domestic water values, time constraints forced the analysis to be limited to using domestic water license counts as an indicator of domestic water values.

Key watersheds for water are those which are completely or partially comprised of a Community Watershed (CWS) and/or contain more than 50 domestic water licenses. Regional priority for water is assigned as: Very High (VH) if some or all of the watershed is a community watershed, High (H) if there are 50 or more domestic licenses (but not designated as a CWS) and Moderate (M) if there are less than 50 domestic water licenses and/or irrigation licenses.

Data Verification

The base data for the prioritization exercise is housed in the Thompson Okanagan Watershed Committee (TOWC) Prioritization Data Base which is maintained by MWALP and accessible on the Ministry ftp site (ftp://ftpkam.env.gov.bc.ca/pub/outgoing/wsrp/) as an Excel spreadsheet (thomoka.xls). This spreadsheet was initially distributed along with the watershed base map to all members of the committee. The members were then responsible for the dissemination of the information request to their constituents. Data inputs were requested for any component upon which the submitting licensee/agency/Aboriginal group had relevant information. The resulting submissions were then compiled into a single spreadsheet. Baseline information on domestic licensing and fish values were derived from interviews with provincial fisheries and DFO staff and water licensing data was derived from the MELP GIS databases using the base map developed by the committee.

The base data relating to fish and water values is subject to periodic review and ongoing validation as new information becomes available through assessments and inventories. Members of the TOWC and their constituents are able to update the 'project status' data annually through submissions. All changes to the data must be made through the WALP Watershed Restoration Specialist as the keeper of the database.

Although not directly used in the prioritization exercise for the Forest Renewal BC focus, the spreadsheet contains many other columns of data relevant to providing a complete picture of the subject watershed.

Priority Key Watersheds

After discussion by the committee it was agreed that:

Key Watersheds are those watersheds that:

- Have one of the nine (9) target species rated as a 3; and/or
- Have Community Watershed Status; and/or
- Have more than 50 domestic use water licenses

Priority Key Watersheds are those Key Watersheds that fall into categories I or II.

No attempt was made to "rank" the watersheds other than as Priority Key Watersheds or not. Rather, the intent was to develop a list of Priority Key Watersheds which, if pursued as restoration projects, would contribute to meeting the EEV strategic objective and performance measures regionally and provincially. Selection from this list by proponent provides needed flexibility to address other goals and objectives while still meeting the strategic objective.

Criteria Used to designate Watersheds into Categories I – V

The Forest Renewal BC watershed categories are as follows:

Cat.	**Interpretation**
I	Watersheds that have known impacts from pre-Code forestry that will potentially benefit from restoration activities
II	Watersheds with impacts from pre-Code forestry as well as other land uses (including private land) and where there is a coordinated restoration plan in place. The watershed will benefit from coordinated restoration activities.
IIB	Watersheds with significant impacts from other land use, including private land, but where there is no coordinated restoration plan in place
III	Watersheds with minimal or no forestry related impairment of fish habitat

	or water quality
IV	Watersheds known to be impacted to such an extent that restoration effort is unlikely to be successful
V	Watersheds with insufficient data to make a determination – deferred

3.5 SUMMARY OF REGIONAL PRIORITY SETTING

Table 1 - Regional Watershed Unit Summary

Total Number of Watershed Units within Region	**256**
Number of watershed units with some pre-Code forest harvesting	**199**
• Number of watershed units which are important producers/conservers for targeted fish species/stocks or domestic water supply	**171**
• Number of key watersheds (i.e. VH, H values for fish/water values)	**171**
⇨ Category I key watersheds	**75**
⇨ Category II key watersheds	**66**
⇨ Category IIB key watersheds	**1**
⇨ Category III key watersheds	**28**
⇨ Category IV key watersheds	**0**
⇨ Category V key watersheds	**0**
• Number of priority key watersheds	**141**

3.6 REGIONAL LIST OF WATERSHED UNITS

Table 2 - Priority Status Summary of all Regional Watershed Units

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region[2] (Y/N)	Categories I-V	Transition Watershed[3] (Y/N)	Priority Key Watershed (Y/N)	MYA # and/orname(s) of implementing partners[4]
		Name	Subunit Name	Ref. #								
1	Clearwater	Adolph Ck		4	L	H	Bt	Y	I		Y	Tolko
2	Clearwater	Albreda R		5	M	VH	Co, Bt	Y	I		Y	Slocan
3	Clearwater	Azure Lk		2	L	L	N/A	N	III		N	
4	Clearwater	Barriere Pass		37	M	L	N/A	N	I		N	Interfor
5	Clearwater	Blackberg / Montana Cks		41	M	M	N/A	N	II		N	Slocan / Weyerhaeuser
6	Clearwater	Blue River/White R		24	VH	L	N/A	Y	I		Y	Weyerhaeuser
7	Clearwater	Bone Ck.		8	L	L	N/A	N	I		N	Slocan
8	Clearwater	Canimred Ck		18	L	L	N/A	N	I		N	Slocan
9	Clearwater	File Ck		13	L	L	N/A	N	III		N	
10	Clearwater	Finn Ck		28	L	H	Ch	Y	I		Y	Weyerhaeuser
11	Clearwater	Gannett / Tsikwustum Cks		34	L	L	N/A	N	I		N	Interfor
12	Clearwater	Hellroar Ck		9	L	L	N/A	N	II		N	Weyerhaeuser
13	Clearwater	Joseph / Dunn Cks		45	M	VH	Co, Ch, Bb	Y	II		Y	Tolko
14	Clearwater	L. Clearwater East (Moul / Fage / Candle / Canyon Cks)		21	M	H	Ch	Y	I		Y	Slocan
15	Clearwater	L. Clearwater West (Brookfiled / Gill Cks to Murtle River)		20	VH	H	Ch	Y	I		Y	Slocan

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[2] ***Key*** watersheds are those regionally significant watersheds that are ranked *high or very high* for fish or drinking water values (see Figure 4).

[3] 1These are watersheds units –with active projects- that are not category II or I (with a co-ordinated plan). Eligible work in these watersheds (see Sec 11) should be completed by March 31, 2001.

[4] Current partnership information is important for planning transition.

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
16	Clearwater	L. Clearwater: Moul Ck - Murtle R (inc Hemp Ck)		16	M	H	Ch	Y	I		Y	Slocan
17	Clearwater	Mad R		30	L	M	N/A	N	II		N	Weyerhaeuser
18	Clearwater	Mahood Lk		17	L	VH	Ko, Rb	Y	I		Y	Weldwood ?
19	Clearwater	Mann Ck		19	M	VH	Co, Ch	Y	I		Y	Slocan
20	Clearwater	Middle Clearwater R.		14	M	H	Ch	Y	III		N	
21	Clearwater	Momich R./ Ceyenne Ck		33	L	VH	Co, So, Bt, Ko	Y	I		Y	Interfor / Slocan / Bell Pole
22	Clearwater	Moonbeam / Serpentine / Pyramid Cks		6	M	M	N/A	N	I		N	Slocan
23	Clearwater	Mud Ck		10	L	H	Co	Y	II		Y	Weyerhaeuser
24	Clearwater	Murtle Lk.		12	L	M	N/A	N	III		N	
25	Clearwater	Murtle R		15	L	L	N/A	N	I		N	
26	Clearwater	N. Blue R.		25	L	VH	Co, Ch	Y	I		Y	Gilbert Smith
27	Clearwater	N. Thompson: Homestead / Lion / Tumtum / Shannon / Hornet Cks		29	VH	H	Co	Y	II		Y	Weyerhaeuser
28	Clearwater	N. Thompson: Lion Ck - Thunder R		26	M	H	Co	Y	I		Y	Weyerhaeuser
29	Clearwater	N. Thompson: McDougal / Foghorn / Jones / Avery / Chuck Cks		42	M	VH	Co, Ch. So	Y	I		Y	Slocan
30	Clearwater	North Thompson: Pyramid Ck - Bone Ck.		7	L	H	Co	Y	I		Y	Slocan
31	Clearwater	Otter Ck		31	L	H	Bt	Y	I		Y	Weyerhaeuser
32	Clearwater	Pisima		38	L	L	N/A	N	I		N	Interfor
33	Clearwater	Raft R		22	M	VH	Co, Ch, So	Y	II		Y	Slocan Weyerhaeuser
34	Clearwater	Reg Christie Ck.		39	M	H	Co	Y	II		Y	Slocan
35	Clearwater	Russell /Hascheak / McDougall Cks		43	VH	M	N/A	Y	II		Y	Slocan

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
36	Clearwater	Sawfly		40	L	M	N/A	N	I		N	Slocan
37	Clearwater	Snookwa R		23	L	L	N/A	N	I		N	
38	Clearwater	Thunder R		11	L	L	N/A	N	I		N	Slocan
39	Clearwater	Upper Adams R: Adams L – Anderson Ck		35	M	VH	Co, Ch, So, Bt, Ko	Y	I		Y	Tolko
40	Clearwater	Upper Adams R:U/S of Briggs Ck		27	L	VH	Co, Ch, So, Bt	Y	I		Y	Tolko
41	Clearwater	Upper Clearwater R		1	L	L	N/A	N	III		N	
42	Clearwater	Upper N. Thompson R		3	L	VH	Co, Bt	Y	I		Y	Tolko
43	Clearwater	Wallace / Harbour / Dudgeon Cks		32	L	M	N/A	N	I		N	Slocan
44	Kamloops	Adams Lk / Lower Adams R		54	VH	VH	Co, Ch, So, Rb	Y	II		Y	Interfor
45	Kamloops	Barnes Ck		81	M	L	N/A	N	I		N	Ainsworth
46	Kamloops	Barriere R		46	VH	VH	Co, Ch, So, Bt, Ko, Bb, Rb	Y	I		Y	Tolko
47	Kamloops	Beaton Ck		72	M	L	N/A	N	III		N	Weyerhaeuser
48	Kamloops	Bonaparte R		78	VH	VH	Co, Ch, St, Rb	Y	II		Y	Ainsworth
49	Kamloops	Campbell Ck		61	H	H	Co	Y	II		Y	Tolko / Riverside
50	Kamloops	Cherry Ck		71	M	L	N/A	N	I		N	Weyerhaeuser / Tolko
51	Kamloops	Cornwall Ck CWS		79	VH	L	N/A	Y	III		N	Ainsworth
52	Kamloops	Dairy Ck		68	M	L	N/A	N	III		N	Weyerhaeuser
53	Kamloops	Darlington / Lindquist Cks		246	M	L	N/A	N	III		N	Tolko
54	Kamloops	Deadman R		83	H	VH	Co, Ch, St	Y	II		Y	Weyerhaeuser Ainsworth
55	Kamloops	Durand Ck		73	M	L	N/A	N	II		N	Ainsworth / (Weyerhaeuser)
56	Kamloops	Guichon Ck		74	L	VH	Co, Ch	Y	III		N	Ainsworth

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
57	Kamloops	Heffley Ck		64	M	H	Co	Y	II		Y	Tolko
58	Kamloops	Hiuihill Ck		56	M	VH	Co, Ch, So	Y	II		Y	Interfor
59	Kamloops	Inkikuh Ck		121	M	L	N/A	N	III		N	Weyerhaeuser
60	Kamloops	Jamieson Ck		66	M	M	N/A	N	I		N	Weyerhaeuser
61	Kamloops	Jimmies Ck CWS		82	VH	L	N/A	Y	I		Y	Ainsworth
62	Kamloops	Kamloops Lk		70	M	M	N/A	N	III		N	(Tolko)
63	Kamloops	Knouff Ck		65	M	L	N/A	N	I		N	Tolko
64	Kamloops	Lemieux Ck		48	M	H	Co	Y	II		Y	Tolko
65	Kamloops	Little R / Little Shuswap Lk		57	M	VH	Co, Ch, So	Y	II		Y	Interfor/ Woodlot for LSIB
66	Kamloops	Lopez Ck CWS		80	VH	L	N/A	Y	III		N	no licencee
67	Kamloops	Louis Ck		52	M	VH	Co, Ch	Y	II		Y	Tolko
68	Kamloops	Lower North Thompson R Residual		44	VH	VH	Co, Ch, So	Y	II		Y	Tolko
69	Kamloops	Martin Mtn		248	M	L	N/A	N	I		N	Tolko
70	Kamloops	Monte Ck		60	M	H	Co	Y	II		Y	Riverside
71	Kamloops	Moore Ck		134	M	H	Ko	Y	II		Y	Weyerhaeuser / Tolko / Aspen
72	Kamloops	Nikwikwaia (Gold) Ck		55	L	VH	Co, So	Y	I		Y	Interfor
73	Kamloops	Niskonlith Ck		58	M	M	N/A	N	III		N	Interfor / Tolko
74	Kamloops	Paul Ck		63	VH	H	Co	Y	II		Y	Weyerhaeuser
75	Kamloops	Peterson Ck		62	M	L	N/A	N	II		N	Weyerhaeuser
76	Kamloops	Peterson Ck (North Thompson)		49	VH	VH	Co, Ch	Y	I		Y	Tolko / Weyerhaeuser
77	Kamloops	Pukaist Ck		76	M	L	N/A	N	I		N	Weyerhaeuser / Ainsworth
78	Kamloops	Sinmax Ck		51	M	VH	Co, Ko	Y	II		Y	Interfor

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
79	Kamloops	Skull Mtn / Fishtrap Ck		50	M	L	N/A	N	III		N	Weyerhaeuser / Tolko
80	Kamloops	South Thompson R		59	H	VH	Co, Ch, So	Y	II		Y	
81	Kamloops	Spapilem Ck		53	M	L	N/A	N	I		N	Interfor
82	Kamloops	Thompson R		77	H	VH	Co, Ch, So, St	Y	III		N	Ainsworth (/ Weyerhaeuser)
83	Kamloops	Thuya Ck		47	M	L	N/A	N	I		N	Tolko
84	Kamloops	Tranquille / Watching Cks		69	VH	VH	Co, Ch, So	Y	I		Y	Weyerhaeuser
85	Kamloops	Upper Guichon Ck		75	M	L	N/A	N	II		N	Weyerhaeuser (/ Ainsworth)
86	Kamloops	Whitewood Ck		67	M	L	N/A	N	I		N	Weyerhaeuser
87	Lillooet	Blowdown Ck		106	L	L	N/A	N	I		N	Ainsworth
88	Lillooet	Botainie Ck		119	M	L	N/A	N	III		N	Lytton Lumber
89	Lillooet	Boulder		108	L	L	N/A	N	I		N	Ainsworth
90	Lillooet	Carpenter Lk		96	M	H	St	Y	I		Y	Ainsworth
91	Lillooet	Connell Ck		98	M	M	N/A	N	I		N	Ainsworth
92	Lillooet	Downton Ck		102	L	L	N/A	N	III		N	Ainsworth
93	Lillooet	Fergusson Ck		95	VH	L	N/A	Y	III		N	Ainsworth
94	Lillooet	Fountain Ck		86	VH	L	N/A	Y	II		Y	Ainsworth
95	Lillooet	Fraser Canyon		89	VH	VH	Co, Ch, So, St	Y	III		N	Ainsworth / Lytton Lumber
96	Lillooet	French Bar		87	M	M	N/A	N	III		N	Ainsworth
97	Lillooet	Gott Ck		107	L	L	N/A	N	III		N	Ainsworth
98	Lillooet	Gun Ck		92	H	L	N/A	Y	III		N	Ainsworth
99	Lillooet	Hurley R / Cadwallader R		94	VH	H	Bt	Y	I		Y	Ainsworth
100	Lillooet	Kwoiek Ck		112	M	VH	Co, Ch, Bt	Y	I		Y	JS Jones

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
101	Lillooet	Lost Ck		101	M	L	N/A	N	III		N	Ainsworth
102	Lillooet	Lower Bridge R		100	VH	VH	Co, Ch, So, St	Y	II		Y	Ainsworth
103	Lillooet	Lower Cayoosh Ck		110	M	VH	Co, Ch, So	Y	I		Y	Ainsworth
104	Lillooet	McGillvery Ck		97	M	M	N/A	N	III		N	Ainsworth
105	Lillooet	Melvin Ck		103	L	L	N/A	N	III		N	Ainsworth
106	Lillooet	Mid Cayoosh Ck		104	L	M	N/A	N	I		N	Ainsworth
107	Lillooet	Murray Ck / Twaal Ck		120	VH	L	N/A	Y	II		Y	JS Jones / Lytton Timber
108	Lillooet	Nicoamen Ck		117	M	L	N/A	N	III		N	JS Jones
109	Lillooet	Nikaia Ck		113	VH	L	N/A	Y	I		Y	JS Jones
110	Lillooet	Pavilion Ck		84	M	L	N/A	N	III		N	Ainsworth
111	Lillooet	Sallus / Gibbs Ck's		85	M	L	N/A	N	III		N	Ainsworth
112	Lillooet	Scarped Range unit		118	VH	L	N/A	Y	III		N	Lytton Lumber
113	Lillooet	Seton Lk		249	VH	H	Ko	Y	III		N	Ainsworth
114	Lillooet	Siska Ck		116	M	L	N/A	N	III		N	JS Jones
115	Lillooet	Siwash Ck		115	VH	L	N/A	Y	I		Y	JS Jones
116	Lillooet	Stein R		111	M	VH	Co, Ch, So, St	Y	III		N	
117	Lillooet	Texas Ck		109	M	VH	Co, Ch, So	Y	I		Y	Ainsworth
118	Lillooet	Town Ck		250	VH	L	N/A	Y	III		N	Ainsworth
119	Lillooet	Tyaughton / Marshall Cks		91	M	H	Bt	Y	I		Y	Ainsworth
120	Lillooet	Upper Bridge R		93	L	VH	St, Bt	Y	I		Y	Ainsworth
121	Lillooet	Upper Cayoosh Ck		105	L	M	N/A	N	I		N	Ainsworth
122	Lillooet	Watson / Ward Ck's		88	M	L	N/A	N	III		N	Ainsworth
123	Lillooet	West Face		114	M	L	N/A	N	I		N	JS Jones
124	Lillooet	Whitecap Ck		99	M	H	Co	Y	I		Y	Ainsworth

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
125	Lillooet	Yalakom R		90	M	VH	Co, Ch, Bt	Y	I		Y	Ainsworth
126	Merritt	Allison Creek		148	VH	H	Ko	Y	II		Y	Tolko
127	Merritt	Beak Ck.		208	L	L	N/A	N	III		N	Ardew
128	Merritt	Chapperon/Frank Ward Cks.		209	M	L	N/A	N	III		N	Riverside / Ardew
129	Merritt	Clapperton Ck		133	M	VH	Co, Ch	Y	II		Y	Aspen
130	Merritt	Coldwater R		129	VH	VH	Co, Ch, St, Bt	Y	II		Y	Tolko
131	Merritt	Copper Ck		139	L	L	N/A	N	I		N	Weyerhaeuser
132	Merritt	Dillard Ck CWS		251	VH	L	N/A	Y	I		Y	Weyerhaeuser
133	Merritt	Gordon Ck		132	M	VH	Co, Ch	Y	III		N	Aspen
134	Merritt	Hayes Ck		149	VH	M	N/A	Y	II		Y	Riverside Weyerhaeuser
135	Merritt	Hedley / McNulty Cks		150	M	L	N/A	N	II		N	Weyerhaeuser
136	Merritt	Lower Guichon Ck		131	M	VH	Co, Ch, St, Ko	Y	II		Y	Aspen
137	Merritt	Mellin Ck.		253	L	L	N/A	N	III		N	Ardew
138	Merritt	Nicola Lk		252	M	VH	Ko, Bb	Y	III		N	Aspen
139	Merritt	Nicola R - Guichon Ck - Skuhun Ck		126	M	VH	Co, Ch, St	Y	I		Y	Weyerhaeuser
140	Merritt	Nicola R: Nicola. Lk – Guichon Ck		130	M	VH	Co, Ch, St	Y	III		N	Weyerhaeuser / Tolko / Aspen
141	Merritt	Nicola R d/s of Guichon Ck		123	M	VH	Co, Ch, St	Y	III		N	Aspen
142	Merritt	Nuaitch Ck		127	M	VH	Co, Ch, St, Bt	Y	III		N	Weyerhaeuser
143	Merritt	NW Tulameen R		136	M	H	Ko	Y	I		Y	Tolko
144	Merritt	Pasayten R		141	M	M	N/A	N	I		N	Weyerhaeuser
145	Merritt	Paul Ck (Merritt)		145	M	L	N/A	N	III		N	Weyerhaeuser
146	Merritt	Pimainus Ck		122	M	L	N/A	N	I		N	Weyerhaeuser

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
147	Merritt	Quilchena Ck		135	M	M	N/A	N	II		N	Weyerhaeuser
148	Merritt	Range Ck.		210	M	L	N/A	N	II		N	Tolko
149	Merritt	Shakan Ck		125	M	VH	Co, Ch, St	Y	III		N	Weyerhaeuser / Ardew
150	Merritt	Similkameen R d/s of Tulameen		146	H	VH	So, Rb	Y	II		Y	Gorman / Weyerhaeuser
151	Merritt	Similkameen R u/s of Tulameen		140	VH	M	N/A	Y	I		Y	Weyerhaeuser
152	Merritt	Skuhun Ck		124	M	H	St	Y	III		N	Aspen
153	Merritt	Smith Ck		143	M	L	N/A	N	I		N	Weyerhasuer
154	Merritt	Spahomin Ck		212	M	M	N/A	N	III		N	Ardew (Gorman, Weyerhaeuser)
155	Merritt	Spius Ck		128	M	VH	Co, Ch, St, Bt	Y	II		Y	Weyerhaeuser, Aspen
156	Merritt	Stump Lk		213	M	L	N/A	N	II		N	Riverside / Tolko
157	Merritt	SW Tulameen R		137	M	M	N/A	N	I		N	Tolko (Weyerh.)
158	Merritt	Tulameen River d/s of Otter Ck		147	VH	H	Rb	Y	II		Y	Weyerhaeuser
159	Merritt	Upper Nicola R above Chapperon Ck		207	VH	H	Bb	Y	I		Y	Ardew, Riverside
160	Merritt	Upper Nicola R		211	M	H	Bb	Y	II		Y	(Tolko/Ardew)
161	Merritt	Whipsaw Ck		138	M	L	N/A	N	I		N	Weyerhaeuser
162	Merritt	Whistle Ck		144	L	L	N/A	N	I		N	Weyerhaeuser
163	Merritt	Wolfe Ck		142	M	H	Rb	Y	I		Y	Weyerhaeuser
164	Penticton	Ashnola R / Snowy Mtn		151	M	H	Rb	Y	II		Y	Gormans
165	Penticton	Bellevue Ck		161	M	M	N/A	N	II		N	Gorman
166	Penticton	Campbell / Saunier Cks		157	L	L	N/A	N	I		N	Weyerhaeuser
167	Penticton	Dale / Wilkinson Cks		158	VH	L	N/A	Y	I		Y	Riverside Weyerhaeuser
168	Penticton	Damfino Ck		170	L	M	N/A	N	I		N	Weyerhaeuser

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
169	Penticton	Ellis Ck		156	VH	L	N/A	Y	II		Y	
170	Penticton	Inkaneep Ck		153	M	H	So	Y	II		Y	Weyerhaeuser
171	Penticton	Keremeos Ck		254	VH	M	N/A	Y	II		Y	Gorman
172	Penticton	Lambly Ck		205	VH	M	N/A	Y	I		Y	Riverside
173	Penticton	McDougal Ck		167	M	L	N/A	N	II		N	no licencee
174	Penticton	Mission Ck		168	VH	VH	Ko, Bb, Rb	Y	II		Y	Riverside Gormans Tolko
175	Penticton	Naramata / Robinson Cks		160	VH	H	Ko	Y	I		Y	Gorman
176	Penticton	Okanagan Lk		162	VH	H	Ko	Y	III		N	Gorman
177	Penticton	Okanagan R		152	VH	VH	Ch, So, St, Ko, Rb	Y	II		Y	Weyerhaeuser
178	Penticton	Peachland Ck		164	VH	H	Ko	Y	I		Y	Riverside
179	Penticton	Pennask Ck		206	L	H	Rb	Y	II		Y	Gorman
180	Penticton	Penticton Ck		159	VH	H	Ko	Y	I		Y	Weyerhaeuser
181	Penticton	Powers Ck		166	VH	H	Ko	Y	I		Y	Riverside
182	Penticton	Shingle Ck		255	VH	M	N/A	Y	II		Y	Weyerhaeuser / Gorman
183	Penticton	Shorts Ck		204	M	M	N/A	N	I		N	Riverside
184	Penticton	Shuttleworth Ck		155	M	L	N/A	N	IV		N	Weyerhaeuser
185	Penticton	Trepanier Ck.		165	VH	VH	Ko, Bb	Y	II		Y	Gorman
186	Penticton	Trout / Eneas Cks		163	VH	VH	Ko, Rb	Y	II		Y	Riverside Gormans
187	Penticton	Upper W Kettle R		169	VH	M	N/A	Y	I		Y	Riverside
188	Penticton	Vaseaux Ck		154	M	H	So	Y	I		Y	Weyerhaeuser
189	Salmon Arm	Anstey R		240	L	VH	Co, Ch, So, Bb	Y	I		Y	Evans
190	Salmon Arm	Apalmer / Siphon Cks		223	M	VH	Co, Ch	Y	I		Y	FedCo
191	Salmon Arm	Celista Ck		236	L	VH	Co, So	Y	I		Y	FedCo

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
192	Salmon Arm	Chase Ck		224	M	H	Ch	Y	II		Y	Riverside
193	Salmon Arm	Corning (Lee) Ck		231	M	M	N/A	N	I		N	FedCo
194	Salmon Arm	Deep Ck		199	VH	L	N/A	Y	II		Y	Tolko / Riverside
195	Salmon Arm	Eagle R		245	H	VH	Co, Ch, So, Ct, Rb	Y	II		Y	Evans
196	Salmon Arm	Four Mile Ck		242	M	L	N/A	N	I		N	FedCo / Evans
197	Salmon Arm	Hunakwa Lk		241	VH	VH	Co, So	Y	III		N	FedCo
198	Salmon Arm	Kingfisher Ck		219	M	VH	Co, Bt, Rb	Y	I		Y	Riverside
199	Salmon Arm	Larch Hills / Mt. Ida		222	VH	L	N/A	Y	II		Y	FedCo / Tolko
200	Salmon Arm	Little R / Little Shuswap Lk		230	M	VH	Co, Ch, So Bb	Y	II		Y	Riverside / FedCo
201	Salmon Arm	Lower Shuswap R (Brash / Ashton / Cook Cks)		220	VH	VH	Co, Ch, Rb	Y	I		Y	Riverside
202	Salmon Arm	Lower Shuswap R.East (Mara Lk - Fortune Ck.)		221	VH	VH	Co, Ch, So, Rb	Y	II		Y	Riverside
203	Salmon Arm	McNomee Ck		237	L	VH	Co, So, Rb	Y	III		N	FedCo
204	Salmon Arm	Noisy Ck		218	L	VH	Co, Bb	Y	I		Y	Riverside
205	Salmon Arm	Onyx Ck		233	M	H	Co	Y	I		Y	FedCo
206	Salmon Arm	Perry R		243	L	VH	Co, Ch, So	Y	I		Y	Evans
207	Salmon Arm	Ratchford Ck		239	L	L	N/A	N	I		N	Evans
208	Salmon Arm	Reinecker Ck.		227	M	H	So	Y	I		Y	FedCo
209	Salmon Arm	Ross Ck		234	M	M	N/A	N	I		N	FedCo
210	Salmon Arm	Scotch Ck		232	M	VH	Co, Ch, So, Bb Rb	Y	II		Y	FedCo
211	Salmon Arm	Shuswap Lk -Seymour Arm		235	H	VH	Co, Ch, So	Y	I		Y	FedCo
212	Salmon Arm	Seymour R		238	M	VH	Co, Ch, So, Rb	Y	I		Y	Evans
213	Salmon Arm	Shuswap Lk - Main Arm		229	VH	VH	Co, Ch, So	Y	I		Y	FedCo

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
214	Salmon Arm	Shuswap Lk (Salmon Arm face unit)		228	H	VH	Co, Ch, So	Y	I		Y	FedCo
215	Salmon Arm	Tappen Ck.		225	H	VH	Co, So	Y	IV		N	FedCo
216	Salmon Arm	TFL 33 – Queest Ck / Four Mile Ck		244	M	H	So	Y	I		Y	FedCo
217	Salmon Arm	Wap Ck		217	L	VH	Co, Ch, So, Bt,Ko,Rb	Y	I		Y	FedCo Riverside
218	Salmon Arm	White Ck.		226	H	VH	Co, Ch	Y	II		Y	FedCo
219	Vernon	Bonneau / Ferry Cks		178	M	H	N/A	Y	II		Y	Tolko / Riverside
220	Vernon	Bruer / Gunner / Coalgoat Cks		175	M	L	N/A	N	I		N	Riverside
221	Vernon	BX Ck		215	VH	H	Bb	Y	II		Y	Tolko
222	Vernon	Cherry Ck		177	M	VH	Bt, Rb	Y	II		Y	Weyerhaeuser
223	Vernon	Coldstream Ck		184	VH	VH	Ko, Rb	Y	II		Y	Tolko
224	Vernon	Deer (King Edward) Ck CWS		216	VH	L	N/A	Y	I		Y	Tolko
225	Vernon	Duteau Ck		180	VH	VH	Co, Ch, Rb	Y	II		Y	Riverside / Tolko
226	Vernon	Equesis Ck		201	M	H	Ko	Y	II		Y	Tolko
227	Vernon	Fortune Ck. (Armstrong Face)		198	VH	H	Co, Rb	Y	II		Y	Riverside
228	Vernon	Glanzier Ck CWS		256	VH	L	N/A	Y	I		Y	Riverside
229	Vernon	Haggart Ck		260	L	L	N/A	N	I		N	
230	Vernon	Harris Ck		179	M	VH	Co, Ch, Rb	Y	II		Y	Riverside
231	Vernon	Hidden Lk		197	M	VH	Co, Ch, Rb	Y	II		Y	Riverside
232	Vernon	Inonoaklin Ck		174	L	L	N/A	N	III		N	Riverside
233	Vernon	Irish Ck		200	VH	L	N/A	Y	III		N	Tolko
234	Vernon	Kelowna Ck		181	VH	H	Ko	Y	II		Y	Tolko
235	Vernon	Lower Bessette Ck		185	VH	VH	Co, Ch, Ko, Rb	Y	II		Y	Tolko / Riverside
236	Vernon	Mabel Lk Tribs East (Smyth / Latewhos Cks)		193	M	VH	Co, Bt	Y	I		Y	Weyerhaeuser

	MoF District	Watershed Unit			Regional priority for domestic water supply (VH, H, M)	Regional priority for fish (VH, H, M)	Existing Stocks at Risk	Key watershed for region (Y/N)	Categories I-V	Transition Watershed (Y/N)	Priority Key Watershed (Y/N)	MYA # and/or name(s) of implementing partners
		Name	Subunit Name	Ref. #								
237	Vernon	Mabel Lk Tribs West		195	M	VH	Co, Rb	Y	III		N	Riverside (/ Weyerhauser)
238	Vernon	Mid Shuswap River (Holstein / Bigg / Ireland Cks) (Mabel Lk SE)		186	M	VH	Co, Ch, So	Y	I		Y	Riverside (/ Weyerhauser)
239	Vernon	Mid Shuswap R (Schunter / Specht Cks)		187	M	VH	Co, Ch, So, Rb	Y	III		N	Weyerhauser
240	Vernon	Mohr Ck		171	L	L	N/A	N	I		N	Weyerhauser / Tolko
241	Vernon	Monashee Ck		176	M	VH	Bt, Rb	Y	I		Y	Bell Pole
242	Vernon	Nashwhito Ck		202	M	H	Ko	Y	II		Y	Riverside
243	Vernon	Oyama Ck		183	VH	M	N/A	Y	I		Y	Tolko
244	Vernon	Salmon R		214	VH	VH	Co, Ch, So, Bb	Y	II		Y	Riverside
245	Vernon	Spectrum Ck.		189	L	H	Rb	Y	II		Y	Gorman
246	Vernon	Sugar Lake (N/NE (Outer / Sitkum / Sugar / Kate / Star Cks)		188	M	VH	Bt, Ko, Rb	Y	I		Y	Weyerhauser
247	Vernon	Sugar Lake West (Sprocton / Reiter Cks)		194	M	H	Rb	Y	I		Y	Weyerhauser
248	Vernon	Trinity Ck		196	M	VH	Co, Ch	Y	II		Y	Riverside / Weyerhauser (/Tolko)
249	Vernon	Tsiuis Ck		192	L	VH	Co, Rb	Y	I		Y	Riverside
250	Vernon	Upper Kettle R		173	L	M	N/A	N	I		N	Riverside/Tolko/Weyerhauser
251	Vernon	Upper Rendell Ck.		172	L	L	N/A	N	I		N	Tolko
252	Vernon	Upper Shuswap East (Gates / Van Wyk / Lindmark Cks)		262	M	VH	Bt, Rb	Y	III		N	
253	Vernon	Upper Shuswap West		191	L	VH	Bt, Rb	Y	I		Y	Tolko / Riverside
254	Vernon	Vernon Ck		182	VH	VH	Ko, Bb	Y	I		Y	Tolko
255	Vernon	Vigue Ck.		190	L	VH	Bt, Ko, Rb	Y	III		N	Weyerhauser

256	Vernon	Whiteman Ck	203	M	H	Ko	Y	I		Y	Riverside

3.7 PROJECT STATUS SUMMARY REPORT FOR TARGET WATERSHEDS

Table 3 - Project Status[5] Summary for Target Watershed Units

	For all WS Units with existing projects															
	Watershed Unit			Watershed Category (I-V)	Transition Watershed (Y/N)	Restoration Plan (P,O,C)	Overview Assessment			Prescriptions			Major Works			Effectivenes Evaluation (P,O,C)
	Name	Subunit name	#				Upslope (P,O,C)[6]	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	
1	Allison Ck		148	II	N	O	C	C	C	C	C	C	O	O	O	
2	Anstey R		240	I	N	O	C		C	C			C			
3	Barriere R		46	I	N	O	C		C	O		O	O	O		O
4	Blue R / White R		24	I	N	P	C			C			C			
5	Bonaparte R		78	II	N	O	C		C	C	C					
6	Celista Ck		236	I	N	O	C		C	C			C			
7	Chase Ck		224	II	N	O	C		C	O	C	O	O	O	O	
8	Cherry Ck		177	II	N	O	C	C	C	P	P	P	P	P	P	
9	Clapperton Ck		133	II	N	P	C	C	C							
10	Coldwater R		129	II	N	O	C	C	C	C	C	C	C	C	C	
11	Deadman R		83	II	N	O	C		C	C	C	C	C	C		
12	Deer (King Edward) Ck CWS		216	I	N	P	C		C							
13	Dillard Ck CWS		251	I	N	O	C	C	C	O	O	O	P	P	P	

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[5] Status as of April 1, 2001. Project status to be verified and updated as needed after submission of Restoration Plans in October.

[6] Planned, Ongoing, Completed

14	Duteau Ck	180	II	N	O	C	C	C	C		C	O	C	O	

	Watershed Unit			Watershed Category (I-V)	Transition Watershed (Y/N)	Restoration Plan (P,O,C)	Overview Assessment			Prescriptions			Major Works			Effectiveness Evaluati n (P,O,C
	Name	Subunit name	#				Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	
15	Eagle R		245	II	N	P	C		C							
16	Finn Ck		28	I	N	O	C		C	C			C			
17	Hayes Ck		149	II	N	O		C	C		C	C				
18	Hiuihill Ck		56	II	N	O	C		C	C		C	C	C	C	
19	Inkaneep Ck		153	II	N	O			C							
20	Kelowna Ck		181	II	N	P	C	C	C	C			C			
21	Kingfisher Ck		219	I	N	O	C		C	C		O	O		O	P
22	Kwoiek Cr		112	I	N	O	C	C	C	O	O	O	O	O	O	O
23	Louis Ck		52	II	N	P	C		C	O			O			
24	Lower Guichon Ck		131	II	N	P	C	C	C							
25	Lower Shuswap R East (Mara Lk – Fortune Ck)		221	II	N		C		C	C			C			
26	Mabel Lk Tribs East (Smyth / Latewhos Cks)		193	I	N	O	C	C	C	C	C	C	O	O	O	
27	Mann Ck		19	I	N	O	C	C	C	C		C	C	C		
28	Mid Shuswap R (Holstein / Bigg / Ireland Cks) (Mabel Lk SE)		186	I	N	P	C		C	C			C	C		
29	Monte Ck		60	II	N	O	C		C	O		O	O		O	
30	Murray / Twaal Cks		120	II	N	P	C		C	O						
31	N. Thompson: Lion Ck – Thunder R		26	I	N	O	C			C			C			
32	N. Thompson: Raft R – Reg Christie Ck		42	I	N	P	C			C			C			

33	Naramata / Robinson Cks		160	I	N	P	C						C		

	Watershed Unit			Watershed Category (I-V)	Transition Watershed (Y/N)	Restoration Plan (P,O,C)	Overview Assessment			Prescriptions			Major Works			Effectives Evaluati (P,O,C
	Name	Subunit name	#				Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	
34	Nikaia Ck		113	I	N	O	C		C	C			O			O
35	NW Tulameen R		136	I	N	O	C	C	C	C	C	C	C	C	C	
36	Otter Ck		31	I	N	O	C		C	C		C	C	C		
37	Paul Ck		63	II	N	O	C		C							
38	Penticton Ck		159	I	N	O	C		C	C			C			
39	Perry R		243	I	N	O	C	C	C	C			C			
40	Peterson Ck (North Thompson)		49	I	N	O	C		C	C			C			
41	Raft R		22	II	N	O	C	C	C	C			C			
42	Reg Christie Ck		39	II	N	O	C			C			C			
43	Scotch Ck		232	II	N	O	C	C	C	C		C	C		C	
44	Seymour R		238	I	N	P		C	C							
45	Sinmax Ck		51	II	N	O	C	C	C			C		C		
46	Spius Ck		128	II	N	O	C	C	C	C	C	C	C	C	C	
47	Sugar Lake (N/NE (Outer / Sitkum / Sugar / Kate / Star Cks.)		188	I	N	O	C	C	C							
48	Sugar Lake West (Sprocton / Reiter Cks)		194	I	N	O	C	C	C	C			C			
49	Tranquille / Watching Cks		69	I	N	O	C		C	C						
50	Trout / Eneas Cks		163	II	N	O	O		O	O		O	O		O	
51	Tsuius Ck		192	I	N	O	C		C	O			O			
52	Tyaughton / Marshall Cks		91	I	N	P	C		C							

53	Upper Adams R: Adams Lk – Anderson Ck	35	I	N	O	C		C	C			C			

	Watershed Unit			Watershed Category (I-V)	Transition Watershed (Y/N)	Restoration Plan (P,O,C)	Overview Assessment			Prescriptions			Major Works			Effectives Evaluati (P,O,C
	Name	Subunit name	#				Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	
54	Upper N. Thompson R		3	I	N	P	C			C			C			
55	Upper Nicola R Above Chapperon Ck		207	I	N	O										
56	Vaseaux Ck		154	I	N	O	C		C	C		C	C	C		
57	Vernon Ck		182	I	N	O	C		C	C			C			
58	Wolfe Ck		142	I	N	O	C	C	C	C	C	C	C	C	C	
59	Yalakom R		90	I	N	P	P	P	P	P	P	P	P	P	P	P

Table 3A - Project Status[7] Summary for Selected[8] Other Priority Key Watershed Units

	Watershed Unit			Watershed Category (I-V)	Transition Watershed (Y/N)	Restoratio n Plan (P,O,C)	Overview Assessment			Prescriptions			Major Works			Effectivenes Evaluation (P,O,C)
	Name	Subunit name	#				Upslope (P,O,C)[9]	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	
1	Ashnola R / Snowy Mtn		151	I	N		C		C	C		C	C		C	
2	Glanzier Ck CWS		256	I	N		C		C							
3	Jimmies Ck CWS		82	I	N		C		C	C			C			
4	Nikwikwaia Ck (Gold Ck)		55	I	N		C		C	C		C	C	C		
5	Oyama Ck		183	I	N		C	C	C	C		C				
6	Whitecap Creek		99	I	N		C									

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[7] Status as of April 1, 2001.

[8] These are Priority Key Watersheds which were eligible to have been selected as Target Watersheds and in which Forest Renewal BC eligible restoration may be complete, pending documentation in a Restoration Plan.

[9] Planned, Ongoing, Completed

Table 3B - Project Status[10] Summary for Selected[11] Other Non Priority Key Watershed Units

	Watershed Unit			Watershed Category (I-V)	Transition Watershed (Y/N)	Restoration Plan (P,O,C)	Overview Assessment			Prescriptions			Major Works			Effectivenes Evaluation (P,O,C)
	Name	Subunit name	#				Upslope (P,O,C)[12]	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	Upslope (P,O,C)	Riparian (P,O,C)	In-Stream (P,O,C)	
1	Barriere Pass		37	I	N		C		C	C			C			
2	Connell Ck		98	I	N		C		C	C			C			
3	Cornwall Ck CWS		82	III	N		C		C							
4	Gannett / Tsikwustum Cks		34	I	N		C			C			C			
5	Pasayten R		141	I	N		C	C	C	C	C	C	C	C	C	
6	Pisima		38	I	N		C			C			C			
7	Spapilem Ck		53	I	N		C		C	C			C			

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[10] Status as of April 1, 2001.

[11] These are non Priority Key Watersheds for which it has been suggested that Renewal BC eligible restoration may be complete. There are no plans to further document completion in the form of Restoration Plans as these watersheds are not eligible to be selected as Target Watersheds.

[12] Planned, Ongoing, Completed

3.8 EFFECTIVENESS EVALUATION NEEDS

Table 4 - Identification of Effectiveness Evaluation Needs[13] for WRP

	Effectiveness Evaluation Issue & Potential Benefits	Type of Effectiveness Evaluation			Category (1, 2, 3)	Estimated 2002-03 Funding required	Estimated term of evaluation (years)
		Routine	Intensive	Operational Techniques Refinement			
1	Allison Creek	✓				$0	0
2	Anstey R	✓					
3	Barriere R	✓					
4	Blue River R / White R	✓					
5	Bonaparte R	✓					
6	Celista Ck	✓					
7	Chase Ck	✓					
8	Cherry Ck	✓				$0	2
9	Clapperton Ck	✓					
10	Coldwater R	✓					
11	Deadman R	✓					
12	Deer (King Edward) Ck CWS	✓					
13	Dillard Ck CWS	✓				$1,000	1
14	Duteau Ck	✓					
15	Eagle R	✓					
16	Finn Ck	✓					
17	Hayes Ck	✓					
18	Hiuihill Ck	✓					
19	Inkaneep Ck	✓					
20	Kelowna Ck	✓					
21	Kingfisher Ck	✓					
22	Kwoiek Ck	✓				$16,000	2
23	Louis Ck	✓					
24	Lower Guichon Ck	✓					
25	Lower Shuswap R East (Mara Lk – Fortune Ck)	✓					
26	Mabel Lk Tribs East (Smyth / Latewhos Cks)	✓				$1,500	1
27	Mann Ck	✓					
28	Mid Shuswap R (Holstein / Bigg / Ireland Cks)(Mabel Lk SE) Mid Shuswap R (Holstein / Bigg / Ireland Cks)(Mabel Lk SE)	✓					
29	Monte Ck	✓					

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[13] Evaluation Needs to be verified and updated after submission of Restoration Plans in October.

	Effectiveness Evaluation Issue & Potential Benefits	Type of Effectiveness Evaluation			Category (1, 2, 3)	Estimated 2002-03 Funding required	Estimated term of evaluation (years)
		Routine	Intensive	Operational Techniques Refinement			
30	Murray / Twaal Cks	✔					
31	N. Thompson R: Lion Ck – Thunder R	✔					
32	N. Thompson R: Raft R – Reg Christie Ck	✔					
33	Naramata / Robinson Cks	✔					
34	Nikaia Ck	✔				$5,000	1
35	NW Tulameen R	✔					
36	Otter Ck	✔					
37	Paul Ck	✔					
38	Penticton Ck	✔					
39	Perry R	✔					
40	Peterson Ck (North Thompson)	✔					
41	Raft R	✔					
42	Reg Christie Ck.	✔					
43	Scotch Ck	✔					
44	Seymour R	✔					
45	Sinmax Ck	✔					
46	Spius Ck	✔				$3,000	1
47	Sugar Lake (N/NE (Outer / Sitkum / Sugar / Kate / Star Cks)	✔				$44,000	1
48	Sugar Lk West (Sprocton / Reiter Cks)	✔				$500	1
49	Tranquille / Watching Cks	✔					
50	Trout / Eneas Cks	✔					
51	Tsuius Ck	✔					
52	Tyaughton / Marshall Cks	✔					
53	Upper Adams R: Adams Lk – Anderson Ck	✔					
54	Upper N. Thompson R	✔					
55	Upper Nicola R above Chapperon Ck.	✔					
56	Vaseaux Ck	✔					
57	Vernon Ck	✔					
57	Wolfe Ck	✔				$4,500	1
59	Yalakom R	✔					

3.9 COSTS TO COMPLETE RESTORATION OF TARGET WATERSHEDS

Table 5 – Costs[14] to Complete Restoration of Target Watersheds

	Watershed Unit		$ Spent prior to April 1, 2001	Planned Expenditure 2001/2002	Estimated Future Expenditures				Total Estimated Watershed Investment
	Name	Ref. #			2002/2003	2003/2004	Beyond 2003/2004	Total Future	
1	Allison Ck	148	$34,258	$13,500					
2	Anstey R	240							
3	Barriere R	46							
4	Blue R / White R	24							
5	Bonaparte R	78							
6	Celista Ck	236							
7	Chase Ck	224							
8	Cherry Ck	177	$4,860	$0					
9	Clapperton Ck	133							
10	Coldwater R	129	$229,725	$85,000	$321,500	$154,500	$0	$476,000	$790,725
11	Deadman R	83							
12	Deer (King Edward) Ck CWS	216							
13	Dillard Ck CWS	251	$2,484	$10,500					
14	Duteau Ck	180							
15	Eagle R	245							
16	Finn Ck	28							
17	Hayes Ck	149							
18	Hiuihill Ck	56							
19	Inkaneep Ck	153							
20	Kelowna Ck	181							
21	Kingfisher Ck	219							
22	Kwoiek Ck	112		$348,600	$238,350	$123,900	$10,000	$372,250	
23	Louis Ck	52							
24	Lower Guichon Ck	131							
25	Lower Shuswap R East (Mara Lk – Fortune Ck)								
26	Mabel Lk Tribs East (Smyth / Latewhos Cks)	193	$111,694	$10,000					
27	Mann Ck	19							

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[14] Restoration Costs to be verified and updated after submission of Restoration Plans in October.

	Watershed Unit		$ Spent prior to April 1, 2001	Planned Expenditure 2001/2002	Estimated Future Expenditures				Total Estimated Watershed Investment
	Name	Ref. #			2002/2003	2003/2004	Beyond 2003/2004	Total Future	
28	Mid Shuswap River (Holstein / Bigg / Ireland Cks)(Mabel Lk SE)	186							
29	Monte Ck	60							
30	Murray / Twaal Cks	120							
31	N. Thompson R: Lion Ck - Thunder R	26							
32	N. Thompson R: Raft R - Reg Christie Ck	42							
33	Naramata / Robinson Cks	160							
34	Nikaia Ck	113		$130,200	$5,250			$5,250	
35	NW Tulameen R	136							
36	Otter Ck	31							
37	Paul Ck	63							
38	Penticton Ck	159							
39	Perry R	243							
40	Peterson Ck (North Thompson)	49							
41	Raft R	22							
42	Reg Christie Ck	39							
43	Scotch Ck	232							
44	Seymour R	238							
45	Sinmax	51							
46	Spius Ck	128	$481,001	$64,315					
47	Sugar Lake (N/NE (Outer / Sitkum / Sugar / Kate / Star Cks)	188	$102,000	$80,500					
48	Sugar Lake West (Sprocton / Reiter Cks)	194	$29,340	$19,485					
49	Tranquille / Watching Cks	69							
50	Trout / Eneas Cks	163							
51	Tsuius Ck	192							
52	Tyaughton / Marshall Cks	91							
53	Upper Adams R: Adams Lk – Anderson Ck	35							
54	Upper N Thompson R	3							
55	Upper Nicola R above Chapperon Ck.	207							

	Watershed Unit		$ Spent prior to April 1, 2001	Planned Expenditure 2001/2002	Estimated Future Expenditures				Total Estimated Watershed Investment
	Name	Ref. #			2002/2003	2003/2004	Beyond 2003/2004	Total Future	
56	Vaseaux Ck	154							
57	Vernon Ck	182							
58	Wolfe Creek	142	$340,304	$118,000					
59	Yalakom R	90			$100,000				

EEV APPENDICES

APPENDIX A. MANAGEMENT UNIT RMP CONTACT AND SUPPORT PERSONNEL

Technical consultation was supported through the membership on the Thompson Okanagan Watershed Committee (TOWC). Membership on the committee is based upon a sectoral representation model with representatives responsible for soliciting information and providing updates to their constituents. Industry representation was organized according to TSA while Aboriginal groups representation was assigned to Tribal Council Coordinators or designates.

The current membership list is as follows:

Forest Industry:

Kamloops TSA	Jennifer Turner	Tolko – Louis Creek
Merritt TSA	Will Sloan	Tolko Merritt
Lillooet TSA	Paul Christensen	Ainsworth
Okanagan TSA	Nick Kleyn	Weyerhaeuser Canada

Aboriginal Band/Tribal Associations:

Larry Casper		Lillooet Tribal Association
Gord Stewart	Stewardship Coordinator	Nicola Watershed Stewardship and Fisheries Authority (NWSFA) & Nicola Watershed Community Round Table (NWCRT)
Murray Ross	Tribal Fisheries Managers	Shuswap Nation Fisheries Commission
Michelle Boshard	Stewardship Coordinator	Okanagan Tribal Association

Government Agencies/Crown Corporations

Ministry of Water, Lands & Air Protection	Phil Epp (chair)	WRP Specialist	MELP – Penticton
Ministry of Water, Lands & Air Protection	Ian McGregor	Fisheries Section Head	MELP – Kamloops
Ministry of Water, Lands & Air Protection	Wayne Weber	Fish Protection Biologist	MELP – Kamloops
Ministry of Forests – District	Frank Heller	WRP Technician	MOF – Merritt
Ministry of Forests – Region	Ernie Carson	WRP Regional Coordinator	MOF – Kamloops Region
Department of Fisheries and Oceans	Tricia Carlson	Habitat Restoration Engineer	DFO – Thompson Region
Forest Renewal BC	Neale Waters	Regional Investment Officer	FRBC – Thompson Okanagan
Fisheries Renewal BC	Murray Ross	Program Coordinator	Thompson Basin Fisheries Council

Other groups:

Fraser Basin	Phil Halinan	Regional Coordinator	Fraser Basin Council

Relatively regular meetings have been held since the inception of the committee in April 1999, as well as regular conference calls during the start up period in 1999. Minutes from the first several meetings were distributed widely to facilitate broad knowledge of the committee and its activities. All decisions regarding committee structure, representation, information needs and information solicitation and analysis were generally by consensus decision of the committee. This is not to say that there were not objections to broader issues of program direction, however on technical issues committee decisions resulted from committee debate and discussion.

No person was excluded from attending any meeting. Room was reserved for observers to view the process. Industry licensee and Ministry of Forests personnel took up this opportunity on a regular basis.

The information that forms the foundation of this plan is the compilation of responses from the following groups/agencies:

Weyerhaeuser Canada
Tolko, Louis Creek
Aspen Planers
Ardew Wood Products
Riverside Forests Products
Gorman Brothers Lumber
Tolko, Merritt
Federated Cooperatives Ltd.
Ainsworth Lumber Co. (Savona Division)
Slocan Forest Products.
Ministry of Forests (Vernon, Salmon Arm, Merritt, Kamloops, Lillooet, Clearwater and Penticton Forest Districts. Kamloops Region)
Ministry of Environment (Fisheries Section, Habitat Section, Fish Protection Section and Watershed Restoration Section)
Department of Fisheries and Oceans
Shuswap Nation Fisheries Commission
Ainsworth (Lillooet Division)
Evans Forest Products
Okanagan Tribal Council
Nicola Tribal Association
International Forest Products Ltd. (Adams Lake Division)

APPENDIX B. REFERENCES SUPPORTING EEV COMPONENT (Listing of reference documentation and location of where copies may be obtained)

Fisheries Project Registry. A Registry of over 2000 Fisheries Restoration Projects in B.C. Web accessible at: http://www.canbcfpr.pac.dfo-mpo.gc.ca/FPR/Qf_Welcome_dev.asp

Forest Renewal Strategic Plan 1999-2003. Web accessible at http://www.forestrenewal.bc.ca/

Kamloops LRMP. Web accessible at: http://www.lrmp.gov.bc.ca/kamloops/

Okanagan LRMP. Web accessible at: http://www.lrmp.gov.bc.ca/okanagan/

Lillooet LRMP. Web accessible at: http://www.luco.gov.bc.ca/lrmp/lillooet/index.htm

Thompson –Okanagan Regional Plan 1998-2005. Available from Forest Renewal BC Regional Office, Kamloops.

Thompson Okanagan Watershed Committee (TOWC) Prioritisation Data Base. Web accessible as an Excel spreadsheet (thomoka.xls) at: ftp://ftpkam.env.gov.bc.ca/pub/outgoing/wsrp/

Thompson Okanagan Watersheds Map. Reference map for Prioritisation Data Base. Web accessible as an Adobe Acrobat viewable file (thomoka2.pdf) at: ftp://ftpkam.env.gov.bc.ca/pub/outgoing/wsrp/. The HP plot file (thomoka.hp) for the map as well as the ArcInfo file (thomoka.e00) are also downloadable from this site.

Chapter 4

Strengthening Sustainable Forest Management (SSFM)

Thompson Okanagan FRBC Region

Resource Management Plan

SSFM

Following is the Strengthening Sustainable Forest Management (SSFM) component of the Resource Management Plan (RMP) in the Thompson Okanagan FRBC region. Each management unit has prepared a set of recommendations consistent with the provincial guidelines and local ground rules. These recommendations were made available for review to interested stakeholders in an attempt to solicit improvements to the planned activities. Following are the primary contacts for each management unit and can provide clarification to the contents as necessary.

Location	Name	Phone	E-Mail
Kamloops Region	Ron Newman	828-4164	Ron.Newman@gems5.gov.bc.ca
Kamloops TSA			
Clearwater	Bill Lougheed	587-3699	Bill.Lougheed@gems4.gov.bc.ca
Kamloops	Ken Chantler	371-6532	Ken.Chantler@gems7.gov.bc.ca
Lillooet TSA	Ray Morello	256-1200	Ray.Morello@gems7.gov.bc.ca
Merritt TSA	Rich Hodson	378-8470	Rich.Hodson@gems1.gov.bc.ca
Okanagan TSA			
Salmon Arm	Linda Sapinsky	833-3431	Linda.Sapinsky@gems7.gov.bc.ca
Vernon	Ted McRae	558-1718	Ted.McRae@gems7.gov.bc.ca
Penticton	Laverne Cormier	490-2267	Laverne.Cormier@gems9.gov.bc.ca
TFL 15	Nick Kleyn	546-8711	nick.kleyn@weyerhaeuser.com
TFL 18	Rowena Bryan	676-9518	robryan@slocan-vavenby.com
TFL 33	Jeff Lipsett	833-1230	lipsett@fclcanoe.com
TFL 35	Nick Kleyn	546-8711	nick.kleyn@weyerhaeuser.com
TFL 49	Gerry McDougal	546-2357	pfc@cablelan.net
Interfor IFPA	Larry Henry		lhenry@nicolavalley.com
Merritt IFPA	Alan Thorne	679-3234	al_thorne@interfor.com

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Chapter 4
Strengthening Sustainable Forest Management (SSFM)

4.0 Introduction and Planning Context

Introduction

This portion of the Resource Management Plan (RMP) for the Thompson Okanagan Region of Forest Renewal BC (FRBC) recommends investments that will strengthen sustainable forest management as per the third strategic objective in Forest Renewal's business plan. Strategic Objective #3 (SO#3) states that;

> **"Forest Renewal BC will invest in the development of relevant, useable, timely information and tools keyed to achieving sustainable forest management".**

Sustainable forest management is much more than just determining sustainable timber harvest levels. To achieve sustainability, all the forest resources and their interactions must be assessed with decisions made regarding their long-term extraction, retention or protection in relation to social, environmental and economic trade-offs. While much is known about the resources and their interactions there are also many knowledge gaps to fill and assessment tools needed to reach low risk decisions about these resource uses.

Planning Context

4.0.1 Purpose

The purpose of the SSFM component of this RMP is to:
- Document the sustainability issues within the region;
- Develop strategies to address those issues including performance indicators;
- Determine the investment 'opportunities' that fill knowledge gaps and otherwise improve our ability to reach reliable decisions regarding sustainable forest management;
- Rank the investment opportunities as to how well they fulfill recommendations from the strategic planning processes;
- Prioritize investment opportunities; and
- Provide a document to guide FRBC investment decisions towards sustainable forest management.

The strategic planning processes have already identified many of the critical knowledge gaps and most important requirements needed to improve the strategic decision making process. The intent is to build on these processes for activities that are eligible for FRBC funding. When the recommendations from the strategic planning processes have been implemented, the region will be well on it's way to strengthening sustainable forest management. The strategic planning processes include:
- The Timber Supply Reviews (TSR);
- The Non-Timber Resource Strategies (NTRS); and
- The Land and Resource Management Plans (LRMPs).

4.0.2 The Planning Process

Development of the SSFM component is designed to be consistent with applicable agreements, provincial guidelines for SSFM and the FRBC Ground Rules for the Thompson Okanagan. In addition, we are attempting to provide a realistic assessment of the issues, knowledge gaps and strategies that provide a fair distribution of activities within a limited funding range. Biological need, scheduling of activities and achievement of recognized standards are also important considerations in determining the relative priority of recommendations. With these in mind, it will be helpful to understand the process of how the SSFM component of the RMP was developed. Following are the basic steps and considerations in development.

1. Receipt of rules and guidelines,
2. Organization of Planning Teams,
3. Focusing the plan,
4. Issue and strategy determination,
5. Identification of activities to meet strategies,
6. Ranking of activities,
7. Prioritization of activities,
8. Inclusion of Interested Stakeholders, and
9. Plan assembly and submission.

1. Rules and Guidelines

The documents guiding the SSFM process were the "*Guidelines for the Forest Renewal BC Strengthening Sustainable Forest Management Component*" and the "*Thompson Okanagan Region 2002-03 Investment Year Resource Management Plan Ground Rules*". For some aspects of the process, compromises in procedure had to be made to satisfy both sets of directions. Some of the specific guidelines to be followed included:

- The number of key regional SSFM issues were to be in the range of five to fifteen. Note that with this limitation, the issue statements had to be fairly encompassing.
- The four templates provided in the provincial guidelines were to be used to document the issues, strategies, activities and the summary of recommendations. Note that some modifications to these were necessary to also satisfy the local ground rules.
- The Regional Planning Team (RPT) were to ensure that input was received from management unit level and that interested stakeholders were provided the opportunity to review and provide recommendations at each step of SSFM development.
- Senior managers in the ministries were to endorse the issue and strategy statements.
- Issues, strategies and recommended activities were limited to those eligible for FRBC funding. This years ministry programs were developed under a separate planning process.
- The issues were to be described, and the recommended activities ranked, as to how well they were meeting the recommendations from the strategic planning processes (TSR, NTRS, LRMP).
- Within each management unit the recommended activities were to be prioritized to 90% of a target funding level (priority 1) and then those between 90% to 130% of that target (priority 2). Any further recommendations were to be given a priority 3.
- Performance indicators were to be provided which measured progress toward resolving an issue.

2. Organizational Structure

Development of the SSFM component of this RMP has been coordinated by a Regional Planning Team (RPT) with membership from industry, FRBC, MOF, MELP and the Interagency Management Committee (IAMC). This team was also tasked with documenting the regional issues and the strategies and performance indicators to address those issues. Senior management from the ministries were asked to endorse these statements.

Within each TSA, representatives from industry, ministries and other stakeholders identified the specific projects to address the issues consistent with the strategies. Direct participation by every stakeholder could not realistically be accommodated within the time frames allocated. However, each TSA was tasked to ensure the interests of each stakeholder were fairly represented. SSFM submissions from TFL's and IFPA's were developed directly by the applicable industry representatives and they were asked to use the same process for development of SSFM recommendations. Additional information regarding the RPT and representation from each management unit is provided in the SSFM Appendix.

3. Focus of the Plan

Consistent with the provincial guidelines and local ground rules, the focus of this plan was to identify sustainability issues, strategies to address those issues and performance indicators to measure progress toward resolving each issue. After these were endorsed by senior management, the focus of the plan switched to identification of specific works in each management unit. The management unit recommendations were to follow the SSFM strategies as well as the recommendations made in strategic planning processes such as TSRs, NTRS and LRMPs. The result is targeted to provide FRBC with investment recommendations that give the reasons for the recommendations (the issues), the recommended approach to resolving the issues (the strategies) and the specific projects to meet the strategies (the activities).

4. Issue and Strategy Determination

The RPT was tasked with providing better documentation of the issues and strategies to guide which activities should be recommended for inclusion under SSFM investments. These have been provided in the SSFM components of previous RMPs but the process to develop and the statements to describe were reviewed and revised as necessary.

The rules and guidelines for developing the RMP restricted the number of issue statements to the range of five to fifteen. They were limited to those eligible for FRBC funding under the SSFM component. Sustainability and the existing strategic planning processes (TSR, NTRS and LRMP) were to serve as a guide for issue identification. The RPT was also requested to word these as a 'statement of concern' rather than just as statements. As a starting point, the basic categories of sustainability certification schemes were examined. The general categorized (and simplified) theme of these that were eligible for SSFM investments were:

timber
wildlife
soils
vegetation
fish
forest health
water
cultural heritage
resource planning

These were in relation to their social, economic and environmental impacts over the long term, their interactions with each other and any gaps in knowledge limiting strategic decisions.

It should be noted that some of resource use categories in the sustainability certification schemes are not generally considered eligible for FRBC funding and were not considered. This would include uses such as grazing, mining and recreation. It should also be noted that the operational and operational planning aspects required under the Forest Practices Code are not generally considered eligible for FRBC funding.

The nine categories listed above were the initial starting point for developing issue statements. As the issue statements were developed some merging, splitting and realignment occurred to better match issues identified in the strategic planning processes and historically specialized needs identified through the ministries. Some wording changes also occurred as the strategies to address each issue were developed. The result is 14 issue statements that will be presented in section 4.1 and 14 strategy statements to be presented in section 4.2. As planning units, the TFLs and IFPAs in the region may have slightly different issues and strategies. They were provided the option of using the regional issues and strategies for TSAs or development of their own issues and strategies.

5. Identification of Activities to Meet the Strategies

The stakeholders in each management unit were tasked with the identification, ranking and prioritization of specific activities that would meet the regional strategies. In most cases, the RPT intentionally avoided including specific activities into the strategy statements. The reason is that each management unit has different opportunities to meet the strategies. Each will also have different priorities for delivery of specific activities and for legitimate reasons. This bottom-up process for activity identification and prioritization was endorsed by the RPT.

For each activity being recommended in a management unit, a template has been completed providing the details around costing, timing, location and benefits. These details are intended to assist with the investment decisions to follow.

6. Ranking of Activities

The provincial guidelines required referencing the strategic planning processes and the local ground rules (appendix 1) ask for activities to be ranking as to how well they are meeting recommendations identified in TSRs, NTRS and LRMPs. The following matrix was developed as the basic assessment process. In addition, the RPT developed guidelines on interpreting the conditions need to provide a certain score in each category.

Criteria (question)	**Explanation**	**Score (weight)**
Timber Supply Review. *How well does the information support TSR needs?*	Forest level information needs identified in the timber supply review will result in improved strategic decisions.	0-5 (2)
Non-timber Resource Strategies *How well does the information support strategic resource planning decisions & strategies?*	Providing better information to decision makers will improve their strategic decisions.	0-5 (2)
Land and Resources Management Plan. *How well does the information support LRMP needs?*	Providing better information to local planning tables will improve their strategic decisions.	0-5 (2)

Criteria (question)	Explanation	Score (weight)
Resources Inventory Committee standard. *Will the information be collected according to an approved RIC standard?*	Multiple users can use information that meets an approved standard. An agency-approved standard is also acceptable.	0-5 (1)
Timing. *Will the information satisfy an identified scheduling need?*	A higher priority is appropriate for information needs which are delaying or preventing important decisions.	0-5 (1)

The above matrix along with the RPT guidelines to determine scores will provide a relative ranking as to how well a specific activity meets strategic planning recommendations, RIC standards and timing considerations. However, it is possible that an activity can receive a priority rating that is inconsistent with the above ranking. These rankings are provided in both template 3 (activities) and template 4 (summaries).

7. Prioritization of Activities

Within each management unit the recommended activities are to be prioritized in addition to the activity ranking for TSR, NTRS, LRMP, RIC standards and timing. Generally, it is expected that the priorities will follow the ranking. However, there may be circumstances where an activity ranking scores fairly low but the activity is recommended over other activities that score fairly high. An example of this might be an on-going project where previous investments need to be protected.

The guidelines for prioritization are that activities up to 90% of a target funding level in each management unit are given a priority 1. Those between 90% to 130% of that target are given a priority 2. Any further recommendations are to be given a priority 3. This prioritization provides generalized categories for funding recommendations and the priorities are provided in the summary table by management unit (template 4).

8. Stakeholder Referrals

All reasonable attempts have been made to include interested stakeholders in the development of the SSFM component of the RMP. Direct participation by every stakeholder could not realistically be accommodated within the time frames allocated. However, the RPT is made up from a variety of stakeholder interests. Licensees and ministry staff in management units have been asked to solicit input and recommendations from stakeholders known to have an interest. The draft issues and strategies have been referred for comments and recommendations. In some locations, meetings were held to directly involve stakeholders known to have an interest. In addition, an information session open to all stakeholders was held on August 23 to explain SSFM and the procedures on how to provide additional comments or suggestions. A referral period from August 20 to September 11 was implemented to solicit additional information.

9. Plan Assembly and Submission

The Ministry of Forests has been tasked with assembly and submission of the final RMP to the local FRBC office. The managers in each ministry have been asked to "sign-off" the presented document.

4.0.3 The Status of Strategic Land Use Planning

Each management unit (TSA, TFL or IFPA) has some form of strategic guidance for land use planning. The TFLs are primarily guided by their approved Management and Working Plans and the IFPAs have approved plans guiding the types of investments to consider. However, the primary drivers for SSFM are the recommendations from the Chief Forester in the Timber Supply Review (TSR), the recommendations in the Non-Timber Resource Strategies and the recommendations from LRMPs in three of the four TSAs. Merritt TSA does not have an LRMP but an IFPA plan is currently performing some of the same functions.

Timber Supply Reviews (TSR)

The following Table outlines approximate release dates for TSR 2 AAC determinations and proposed start dates for TSR 3. Projects under the SSFM envelope use issues identified during Timber Supply Reviews as criteria for approval. The release of the AAC Rationale allows the chief forester to identify these issues as well as areas where improved information would greatly benefit future resource decisions.

In order for the results of projects to be fully incorporated into the next Timber Supply Review for each unit, it is recommended that they be complete by the time the inventory information is required for the respective area.

Schedule of Timber Supply Reviews

Unit	Approx. TSR 2 AAC Rational Release	TSR 3 Data Package (approx.)
Kamloops TSA	December 2001	Fall of 2003
Lillooet TSA	Oct 2001	Winter of 2003
Merritt TSA	Oct 2001	Winter of 2003
Okanagan TSA	July 2001	Winter of 2003
TFL 15	July 1999	Fall of 2002
TFL 18	Dec 1999	Spring of 2003
TFL 33	June 2000	Fall of 2003
TFL 35	Oct 2001	Winter of 2004
TFL 49	Dec 1998	Spring of 2001

Land and Resource Management Plans (LRMPs)

Kamloops LRMP

The Kamloops LRMP is now in its 6th year of implementation. In addition to complying with plan direction in all regular operational activities, agencies annually identify and carry out specific "incremental" activities which contribute toward achievement of plan objectives. An interagency and stakeholder table annually monitors the implementation of agency workplans and periodically assesses the effectiveness of implementation actions in achieving plan goals.

Lillooet LRMP

The Lillooet LRMP was announced in November 1995 and effectively began its planning work in mid-1997. Late in 2000, the planning Table committed to agree on a Phase 1 "Framework Agreement" before April 2001 and to complete plan details by March 2002. In spite of intensive negotiations early in 2001, Table members were unable to reach consensus on a Framework. They agreed to submit two "final offers" to government and undertook to support whichever one government chose, as long as government accepted one or the other offer in its entirety. Both "offers" share a considerable amount of common strategic direction, but further details (Phase 2) and government approval are required before implementation can commence. The outgoing government's approval-in-principle of the Conservation, Recreation, Tourism and Community caucus offer was challenged by supporters of the Lillooet Communities Coalition caucus, and the new government has undertaken to review the decision. The LRMP process is currently awaiting government direction by September 2001 once this review is complete.

Okanagan-Shuswap LRMP

On Sept. 9, 2000, after four and a half years of round table meetings and negotiations, a recommended land use plan for the Okanagan-Shuswap Area was ratified by 30 public stakeholders. Highlights of the recommended plan include establishment of 49 new parks, zones that will provide for sensitive resource management for wildlife, water, recreation and scenic views, and follow-up committees that will allow for continued involvement by the public in resource management. A social, environmental and economic analysis that was done on the recommended plan shows that it will not negatively impact the area's economy and will in fact provide better protection of environmental values. The recommended plan was approved by government in January 2001 and a final meeting of the LRMP table in May marked the transition into the implementation and monitoring phase. Stakeholders and government staff are receiving training in plan implementation, which will be based primarily on map and text information uniquely accessed electronically through a sophisticated, fully accessible website. The fact that the OSLRMP entered into more detail than many other LRMPs is expected to provide clearer direction for implementation actions at the operational level.

Merritt - no plan underway

Non Timber Resources Strategies for the Southern Interior Region

There have been a number of non-timber strategies developed at both the provincial level and specifically for the Southern Interior Region.

Provincially there are Mountain Caribou and Grizzly Bear Strategies available. Locally the North Cascades Grizzly Bear Recovery Strategy has been approved by government. This is currently being used in the Merritt TSA and was used in helping to develop the objectives for the Lillooet and Okanagan LRMPs.

The Ministries of Sustainable Resource Management and Water Land and Air Protection have developed draft strategies for "Wildlife Inventories for Ungulate Game Species" and a draft "Water Resource Strategies" for the Southern Interior ".

A draft strategy for fisheries is not yet currently available.

4.1 Key Regional SSFM Issues

Five to fifteen issues were to be provided. The issues were to be eligible for FRBC funding under the SSFM component and of regional concern. The strategic planning processes including TSRs, NTRS and LRMPs were to be the drivers for determining these key forest management issues. These were to be provided on template 1 of the guidelines and written as 'statements of concern'.

4.1.1 Overview of Issue Determination

In developing the issue statements, the RPT referenced a number of sources to document the main concerns in the Thompson Okanagan region. Many of the issues had been previously identified through these sources and development of the issue statements was a matter of grouping concerns into 15 or less categories and then some word modification to satisfy this grouping. The sources reviewed to document the issues included:

Previous RMP's
Land & Res. Mgt Plans
Previous Investment Plans
Senior Ministry Managers
Timber Supply Reviews
Regional Specialists
District Specialists
RPT Representatives
Non-Timber Res. Strategies
Stakeholder Comments
Certification Schemes
Industry Plans (IFPA, etc)

Several drafts were developed and then improved through the RPT. When reasonably satisfied, the RPT obtained the approval of the IAMC to send the draft to participants for review and comment. As a part of the review, participants were asked to inform any other stakeholders known to have an interest and to solicit their comments. Also, a meeting with select stakeholders (to keep the meeting manageable) was held on July 10. The reviews resulted in many additional improvements to the drafts. These changes were again reviewed through the RPT and finally accepted. The accepted version was then sent to senior managers in the three ministries for endorsement. They endorsed that the "Issues and Knowledge Strategies are the key priorities to address in the SSFM portion of the RMP for the Thompson-Okanagan Region of FRBC". The endorsed copy was then sent to all participants to guide in the determination of which works to include into the SSFM recommendations.

It is expected that these documented issues for TSAs are also applicable to TFLs and IFPAs and they are encouraged to use them. However, these management units can develop a separate set of issue statements if it better suits their needs.

An overview of the issues documented for the Thompson Okanagan Region is provided below.

Code	Title	Issue Statement
CH	Cultural Heritage	Resource use conflicts and costly delays are being experienced due to insufficient identification and assessment of historic & pre-historic sites, trails and areas of archaeological significance.
FFH	Fish & Fish Habitat	The absence of sufficient information on the composition and distribution of fish and fish habitat is inhibiting meeting land use planning objectives (LRMP's), reducing the accuracy of TSR reviews, and may be contributing to overly conservative or ineffective fish and forestry management strategies.

Code	Title	Issue Statement
FH	Forest Health	Annually, conditions affecting the health of second growth forests change and those changes result in significant losses due to mortality, growth loss, value reduction and volume declines in second growth forests.
GY	Growth & Yield	There is a high degree of uncertainty regarding the productivity and stand development of second growth, and complex uneven aged stands, which is reducing the reliability of forest growth predictions and future yield estimates.
IT	Inventory Tools	Inefficiencies in delivery of SSFM are resulting due to proper tools, which are common to many recommendations, being unavailable in a timely manner to properly meet scheduling needs.
RP	Resource Planning	The implementation of FRBC funded resource planning to address sustainability lacks co-ordination and is not always targeted towards the resource priorities and needs.
ST	Stream Temperature	There is no objective procedure to manage for stream temperature in forestry operating areas for the protection of aquatic life and human consumption.
TEM	Terrestrial Ecosystems	Resource planning concerns and strategic management decisions remain unresolved due to incomplete classification and interpretation of the biological and environmental conditions of terrestrial ecosystems.
TSM	Terrain Stability	Insufficient information exists on identifying unstable and potentially unstable terrain to allow reliable forest management decisions and strategic planning throughout the region.
VA	Visual Aesthetics	Visual quality objectives have not been established on 20% of the land base in the Thompson Okanagan region and two-thirds of areas with VQO's and visual inventories completed are not up to RIC standards. The result is a high degree of uncertainty in the strategic planning, timber supply analysis and forest management processes.
VRI	Vegetation Inventories	Sustainability, strategic planning and adequate ecosystem management cannot be achieved in some parts of the region, due to a lack of reliable information on the timber and vegetation resources.
WQ	Water Quality	Water Quality objectives have not been set for many of the Community Watersheds as intended by the Forest Practices Code.
WY	Water Yield	In many biogeoclimatic areas within the dry Interior (Kamloops Forest Region), there are a number of watersheds where there is often not enough water supply to meet the various demands.
WWH	Wildlife	A reasonable degree of certainty that wildlife and wildlife opportunities (recreational & commercial) are being sustained in concert with forest development requires more information on abundance, composition, distribution, trends, and habitat supply.

4.1.2 Regional Issue Descriptions

The 14 regional issues described in the overview are provided in the following templates consistent with the Provincial guidelines. The templates provide more detail regarding the concerns around the issue and the relationships to sustainability and strategic resource planning.

4.1.2.1 Cultural Heritage

Template 1
Key Regional SSFM Issues

SSFM Issue: CH	**Title: Cultural Heritage**

Description of the Regional SSFM Issue:

Resource use conflicts and costly delays are being experienced due to insufficient identification and assessment of historic & pre-historic sites, trails and areas of archaeological significance.

A lack of knowledge around the CH resources has resulted in resource use conflicts. In the past, inventories of culture and heritage resources have been undertaken as a reaction to development. Consequently, there have been costly delays or postponement of development.

Currently bands, tribal councils, historic societies, etc, initiate a cultural heritage inventory and assessment after other resource planning has occurred. The potential for conflict already exists. Inclusion of cultural inventories at the start of a resource planning process would help to eliminate conflicts. In some instances, CH information is sensitive to public disclosure and care must be taken to maintain confidentiality around certain CH resource concerns. This in turn leads to problems of practitioners being able to access and utilize the information.

Sustainability Relationships: (timber, non-timber, ecological, etc)
Retention of cultural heritage is a sustainability issue, which requires a pro-active approach. The location and significance of heritage resources need to be identified and assessed prior to conflicts arising with other resource developments. Significant knowledge gaps exist in the current inventories of heritage resources. These gaps need to be filled and that information used as a part of the short term and long term total resource management planning.

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews:
The lack of cultural heritage inventories and assessments leads to risk and uncertainty around harvest level determinations and the planning of harvesting activities. In determinations of AAC the Chief Forester needs to determine the net land base available for harvest. Areas with 'significant' cultural heritage values need to be removed from the land base or have strategies implemented which allow harvesting and still retain the significant cultural heritage aspects.

Non-timber Resource Strategies:
Cultural heritage is a non-timber resource that hasn't been adequately inventoried or assessed and strategies have not been developed. The mapping of trails, village and archaeological sites may promote other forest uses such as ecotourism and botanical forest products.

LRMPs:
The lack of cultural heritage inventories and assessments leads to risk and uncertainty around the Land & Resource Management Planning process and it's subsequent approval as a higher level plan. In the development of LRMP's, aboriginal sites of cultural significance have often been incompletely assessed due to politics. Bands and tribal councils usually refused to participate in the LRMP process. This aspect needs to be considered when using the SSFM ranking guide for meeting LRMP needs.

Comments: An effective treaty process will also require good inventories of culture and heritage resources.

4.1.2.2 Fish & Fish Habitat

Template 1
Key Regional SSFM Issues

SSFM Issue: FFH	Title: Fish and Fish Habitat Inventory

Description of the Regional SSFM Issue:

The absence of sufficient information on the composition and distribution of fish and fish habitat is inhibiting meeting land use planning objectives (LRMP's), reducing the accuracy of TSR reviews, and may be contributing to overly conservative or ineffective fish and forestry management strategies.

Sustainability Relationships: (timber, non-timber, ecological, etc)

The absence of comprehensive fisheries inventory information for the forested land base has resulted in risks and uncertainties to both the Ecological (fisheries) values and timber resources on the regional forested land-base.

Ecological Values:

The absence of detailed fish and fish habitat information available to assist in regional, local and operational planning activities could potentially put at risk sustainable and viable of aquatic ecosystems throughout the Kamloops Forest Region. It is important to know and understand present fish populations, behaviour, numbers and habitat currently and in the future, so that it can be maintained and protected. Information can also be used to help direct future Enhanced Environmental Value (EEV) work.

Timber Resources:

Planning and operational activities are negatively influenced by current knowledge gaps in fish and fish habitat information. In the absence of region-wide fish and fish habitat inventory data, Regional Land Base, Forest Development and Landscape Planning activities will be developed with potentially overly conservative options to ensure that the protection of aquatic ecosystems are protected. These protection measures will effect the Timber Supply Review netdowns.

Non-Timber Values

Fisheries information plays an important part in current management of Freshwater Fishing regulations for the region. The identification of important stocks and habitat results in changes to these regulations, which results in better protection and management of fish species. In addition, fisheries information also plays an important role in other non-timber resources such as mining, gas, water use including hydro development.

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews: Increased fish and fish habitat inventory will aid in Timber Supply Review by providing data for the creation of accurate and acceptable Riparian Management Classifications in regional watersheds. Additionally, increased fish and fish habitat inventory activities will identify specific landscape units where resource and forestry planning will be adapted to ensure the viability and sustainability of threatened and/or regionally significant fish population

Non-timber Resource Strategies: The preservation, conservation and management of fish and fish habitat throughout the Kamloops Forest Region are legislated components of approved regional Higher Level Plans and are included in the Ministry Strategic Objectives. Accurate fisheries information is required to meet the needs of these regional plans, as well as local resource management objectives

LRMPs: The preservation and conservation of fish populations and aquatic habitat are identified key issues in regional LRMP documents. In addition to broad goals which seek to sustain fish and fish habitat integrity, specific issues have been addressed each of the Regions finalized LRMP's. These issues are related to collecting information and developing comprehensive management plans for identified fish and fish habitats. Knowledge strategies and activities proposed to address the Fish and Fish Habitat Inventory Issue are suited to address the needs of regional LRMP's.

Comments:

4.1.2.3 Forest Health

Template 1
Key Regional SSFM Issues

SSFM Issue: FH	**Title: Forest Health**

Description of the Regional SSFM Issue:

Annually, conditions affecting the health of second growth forests change and those changes result in significant losses due to mortality, growth loss, value reduction and volume declines in second growth forests.

Conditions affecting the health of our forest change from season to season and from year to year. A minor event in one year can turn into a catastrophic event the following year. Even in an average year, the non-recoverable losses from insects and disease, wind, snow and animal damage significantly exceed the losses from a bad fire year. The accumulative effect of these losses is a significant reduction in long-term yields, which directly reduces AAC and has negative impacts on other resource uses.

Presently there is no security of funding or assurance that the damaging agents and their environmental limiting factors can be monitored from year to year. Reduction of losses, predictions of recurring events and developing new methods of controlling the damaging agents is hampered through a lack of long term financial commitment for planning, assessment and research.

Sustainability Relationships: (timber, non-timber, ecological, etc)
Sustainability is based on the principle of sufficient second growth forests replacing, in a timely manner, those utilized through controlled resource extraction. However, insects, disease and other damaging agents can quickly affect the timing or quantity of the replacement forest. Sustainability is totally dependent on the health, vigour, vitality and productivity of our second growth stands. The reliability of our long-term planning is also dependent on how well we predict losses due to forest health concerns.

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews:
Non-recoverable losses, growth reductions and epidemic mortality are all forest health factors related to the AAC determination. It is even feasible that a reduction in endemic losses could increase future yields and thus AAC. These factors must be quantified for the current AAC determination. The potential for increased yields through forest health treatments also exists but those would have to be substantiated prior having an impact on AAC.

Non-timber Resource Strategies:
Preventing substantial losses of second growth forests and certain habitats is vital to the NTRS and the management of the non-timber resources. Links to forest health concerns are often indirect but sometimes are directly related as in the instances of animal damage to immature forests.

LRMPs:
Many of the predictions in the LRMP utilize the same factors as TSR. Although the LRMPs seldom directly state that growth reductions or non-recoverable losses due to forest health factors are an issue, these in fact have direct implications on the recommendations resulting from this planning process.

Comments:

4.1.2.4 Growth & Yield

Template 1
Key Regional SSFM Issues

SSFM Issue: GY	**Title: Growth and Yield**

Description of the Regional SSFM Issue:

There is a high degree of uncertainty regarding the productivity and stand development of second growth, and complex uneven aged stands, which is reducing the reliability of forest growth predictions and future yield estimates.

Growth and Yield (GY) provides information on the quantity, quality and composition of our forests over time. Predictive models used for strategic planning (TSR, LRMP) and land management decisions rely on accurate GY data. While significant progress has been made on data capture and modelling, there are still substantial knowledge gaps and uncertainties surrounding our complex ecosystems. A cross section of these concerns include:

- Gaps remain in representative sampling data for a variety of important forest structures and ecotypes.
- Reliable calibrated data is not always available and predictive models must often rely on averages or best estimates.
- GY data on the various biogeoclimatic conditions is incomplete and insufficient to support new models being introduced.
- Due to a lack of monitoring work, we cannot verify that predictions are reasonably accurate.
- It is uncertain whether managed second growth or complex stands will produce yields similar to as their natural stand counterparts to which most of the GY data applies.
- There is uncertainty that the permanent samples can be remeasured on the preferred ten-year cycle.
- The composition of our forest is changing from existing mature and old growth to regenerated second growth and we have little data on how these second growth stands develop over time.

Forest and land management decisions rely on predictions of tree growth and forest yields, yet there is a high degree of uncertainty regarding the productivity and stand development of second growth, and complex uneven aged stands. Strategic planning and land management decisions will have a high degree of risk and sustainability will remain in doubt until certainty around these concerns is brought to acceptable levels.

Sustainability Relationships: (timber, non-timber, ecological, etc)

- GY studies and predictions allow us to determine and confirm the sustainability of our forest resources to meet certification requirements.
- GY data will help to conserve biodiversity and maintain other resource values by monitoring forest conditions over time.
- GY based inventories projection of future forest composition affect many strategic decisions regarding management of the land base including biodiversity, old growth, wildlife habitat, harvesting volumes, stand values, green-up and visual aesthetics.
- Data for calibration of computer models and analysis tools is obtained through field sampling and similar information can be used for Monitoring in support of certification initiatives.

Relationship to Strategic Resource Plans and Decisions:

SSFM Issue: GY	**Title: Growth and Yield**

Timber Supply Reviews:
A lack of GY data leads to risk and uncertainty around harvest level determinations (AAC) and the planning of harvesting activities. GY data is used to define the analysis units, model timber supply and project yields that represent the consequences of management decisions. TSR is moving toward use of increased second-growth productivity estimates linked to biogeoclimatic ecosystem classification (BEC). Half of the SIBEC database is derived from Permanent Sample Plots (PSPs) and the balance from other GY studies. PSPs also fill gaps in our knowledge base and reduce risk and uncertainty around our yield predictions within second-growth and complex stands. Model adjustments for complete stocking (Operational adjustment factors) will have a large impact upon our predictions for TSR and pest monitoring. As the forest is converted to second growth stands, different yield curves are used in TSR but the supporting data and the associated reliability of second growth predictions remains in doubt.

Non-timber Resource Strategies:
GY inventories collect data useful for examining the interaction of spatial planning and non-timber resources. The prediction of many non-timber attributes are currently linked directly to derived timber attributes, forest structure attributes, etc. GY will also help to conserve biodiversity and maintain other resource values by monitoring forest conditions over time. Forest health, wildlife tree information and stand structure data support habitat and other models. The GY associated BEC data also supplements terrestrial ecosystem mapping (TEM)or predictive ecosystem mapping (PEM) as well as defining other resource values such as habitat

LRMPs:
The predictive models used in land use planning require GY data to project outcomes from land use decisions. The reliability of those predictions can be no better than the data they are derived from. It is desirable that these predictive models represent local conditions. Any information gaps or uncertainty in the GY data leads to risk and uncertainty around the process and its subsequent approval as a higher level plan.

Comments: Providing and maintaining sufficient quantities of reliable GY data is a necessity for strategic planning, forest management and sustainability..

4.1.2.5 Inventory Tools

Template 1
Key Regional SSFM Issues

SSFM Issue: IT	**Title: Inventory Tools**

Description of the Regional SSFM Issue:

Inefficiencies in delivery of SSFM are resulting due to proper tools, which are common to many recommendations, being unavailable in a timely manner to properly meet scheduling needs.

A number of Inventory Tools provide products necessary to resolve other issues such as VRI, TEM, TSM, VA, CH, GY, RP and FH. Mainly these tools are products such as aerial photographs, softcopy or other computer models, orthophotography, satellite imagery and mapping equipment used across a variety of programs. When these tools are not available at the times needed the delivery of plans and products can be inefficient. Typically the lack of proper tools will result in delivery delays, increased unit cost, questionable data, out-of-date or incompatible results and generally less than optimum work.

Sustainability Relationships: (timber, non-timber, ecological, etc)

Having the tools needed in a timely manner is a basic need for all SSFM-issues listed in the RMP. Aerial photography, digital mapping, databases and GIS ready files are necessary before initiation of many of these SSFM Inventories. Resolving this issue is key to sustainability and this cannot be achieved without the proper tools.

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews:
The lack of new aerial photographs or out of date databases will lead to risk and uncertainty around harvest level determinations and the planning of harvesting activities. GIS ready files integrate all SSFM inventories into a useable file structure for integration analysis.

Non-timber Resource Strategies:
IT supports all SSFM inventories that are necessary for developing timber and non-timber resource strategies. Fish, water and wildlife inventories all require the proper tools at the times needed to produce optimum results.

LRMPs:
SSFM inventories used in the Land & Resource Management Planning process must be reliable and current for their use in management decisions and subsequent approval as a higher level plans. A lack of proper tools to develop those inventories can lead to uncertainty around subsequent decisions.

Comments: None

4.1.2.6 Resource Planning

Template 1
Key Regional SSFM Issues

SSFM Issue: RP	**Title: Resource Planning**

Description of the Regional SSFM Issue:

The implementation of FRBC funded resource planning to address sustainability lacks co-ordination and is not always targeted towards the resource priorities and needs.

FRBC funded plans and data collection for integrated resource uses identified in the LRMPs, NTRS and TSR is often haphazard. Co-ordinated is required to address the most critical priorities in sequence. The types of resource planning under this issue are often "related" to net-downs; spatial planning; landscape units and objectives; biodiversity including OGMAs; and other types of strategic resource planning not specifically included under other RMP issues. Field verification and validation is often needed for mitigation of concerns in specific areas.

Sustainability Relationships: (timber, non-timber, ecological, etc)

Planning is needed to understand and implement the best resource use options for sustainability. However, for FRBC eligibility, the resource planning is directed at the strategic level rather than operational planning. This planning and data collection usually provides essential support for strategic decisions and higher level plans. Achievement of sustainability is then assisted through these processes.

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews:
Resource planning is critical to determining the impacts of resource use and possible harvesting alternatives. Uncertainty around the interactions of resource uses leads to caution in setting harvest rates. If reliable plans were in place with these interactions well documented, more certainty around harvesting options would result.

Non-timber Resource Strategies:
The interaction of resource planning with non-timber resources is a basic component of these planning processes. The interactions of the non-timber resources with the timber resources cannot be separated and still have a reliable planning process.

LRMPs:
Many of the needs and recommendations in LRMPs are directly linked to uncertainty around resource planning. As a higher level plan, these recommendations for FRBC eligible planning concerns must be addressed and resolved.

Comments: None

4.1.2.7 Stream Temperature

Template 1
Key Regional SSFM Issues

SSFM Issue: ST	Title: Stream Temperature

Overview Description of the Regional Strategic Issue:

There is no objective procedure to manage for stream temperature in forestry operating areas for the protection of aquatic life and human consumption.

The Kamloops Forest Region includes some of the hottest climates in the Province, notably those in the South Okanagan, Similkameen, Merritt and South Thompson areas. Reduction of the riparian canopy reduces shading and can result in elevated stream temperatures. Salmonoid fish species and other aquatic organisms that require cold water for survival are sensitive to thermal variation. Rearing and egg incubation are particularly sensitive; elevated water temperature can result in juvenile and egg mortality. Greatly elevated water temperatures can result in cessation of migration and can even cause adult mortality.

Relationship to Sustainable Forest Management:

The most significant risk to long-term timber supply is the designation of whole watersheds as temperature sensitive that reduces timber available for harvest. Knowledge of existing stream temperatures and the incremental impact of riparian forestry to stream temperature enable the design of appropriate logging plans to maintain natural variations in stream temperature and potentially freeing up timber for harvest that otherwise would not be available. An objective based procedure reduces risk to sustainable forestry and uncertainty to known water resources.

The maintenance of environmental values

Salmon and bull trout fish species are identified species at risk to elevated stream temperature along with exceedences of drinking water standards. A procedure that objectively assesses the risk to these aquatic and human values from riparian logging is needed to guide forest licensees in operational and strategic planning.

The sustainable use of timber resources

Timber extraction is restricted around Temperature Sensitive Streams (TSS) and tributaries to a TSS. Forest operational procedures are unknown under these circumstances. Because operating areas have progressively extended around small streams- the S4 to S6 classes- where no or a small riparian buffer is typical, there is a lack of an operational procedure to assess for stream temperature protection around S4 TSS and its S4, S5 and S6 tributaries. This represents a potentially significant reduction in the amount of harvestable timber on a cumulative basis. Being able to know when to leave riparian strips for temperature protection and when to harvest will help to predict timber supply and also manage for environmental values.

The sustainable use of non-timber resources

Management of stream temperature for protection of salmon and bull trout fish populations, frogs and drinking water standards are the most significant risks. A defensible procedure to test for logging-related stream temperature impacts prior to harvesting will enable strategic decisions when these risks are identified.

SSFM Issue: ST	**Title: Stream Temperature**

Relationship to Strategic Resource Plans and Decisions:

Strategic Decisions

Management of stream temperature is a legislated regulation of the Forest Practices Code around Temperature Sensitive Streams. The lack of knowledge of existing stream temperature and effects of logging to a TSS represents a key limitation in the application of the legislated regulation. The novelty and uncertainty of this designation in the Province, and the potential wide geographic scope of the issue may affect predictions of Timber Supply in the entire Kamloops Region. Due to potential harvest implications, and effects to the water resource, understanding stream temperature management associated with logging would benefit both foresters and ecosystem managers in many agencies and organizations.

Strategic Resource Plans

A stream temperature management procedure is derived from an environmental data base that can potentially be used in many levels of Strategic Resource Plans. For example, the Okanagan LRMP has set objectives for stream temperature, as has the draft (May 8, 2001) Merritt Timber Supply Area Sustainable Forest Management Plan. Other potential applications are to a Regional Planning Process initiated in the Merritt TSA as well as the IFPA program (Merritt office). The contributory nature of a stream temperature data base is therefore recognized for inclusion in regional level plans, forest certification processes (ISO 14001) and locally significant plans such as the recently announced salmon recovery program for the Coldwater River (Pacific Foundation) scheduled to commence this year.

Cross Reference to Management Unit Issues (if applicable):

Stream temperature management has long been recognized as an important issue in the Merritt District. In early 1998, formal meetings dealing with this issue were initiated by the Nicola Tribal Association due to the cultural significance of high stream temperatures and declining salmon stocks in the valley bottoms. Meetings involved discussions with multiple agencies and organizations. A Nicola Temperature Sensitive Stream Committee was subsequently formed as a dedicated task team with representatives of DFO, MELP, MoF, forest licensees and the Nicola Tribal Association. The team actively meets at periodic intervals in the Merritt District office, maintains a web site devoted to the topic of stream temperature and exchanges inter-agency policy, and research information.

4.1.2.8 Terrestrial Ecosystems

Template 1
Key Regional SSFM Issues

SSFM Issue: TEM	**Title: Terrestrial Ecosystems**

Description of the Regional SSFM Sub-Issue:

Resource planning concerns and strategic management decisions remain unresolved due to incomplete classification and interpretation of the biological and environmental conditions of terrestrial ecosystems.

The first approximation of the Biogeoclimatic Ecosystem Classification (BEC) was originally completed in 1990 and reflected the state of knowledge from the late 1980's. Subzone mapping was completed at scales of 1:100,000 to 1:250,000. However, this mapping is required at a scale of 1:20,000 to 1:50,000 for many strategic and operational purposes. With incomplete initial sampling and changes in knowledge and the way we do business, revisions to the first approximation were started in 1997. Minimum funding levels has lengthened to time required to deliver the final product. Meanwhile, certain management decisions are being delayed and some resource planning is being delayed or done to less than desirable standards awaiting the BEC revisions.

TEM and PEM mapping serves as a framework for developing, comparing, and communicating numerous short and long term resource management strategies, guidelines and regulations which are widely used. These mapping approaches display the spatial distribution of BEC ecological classes on a single map, have tremendous interpretative values, and have many applications for strategic planning. TEM approaches to mapping have been temporarily terminated in favour of the less expensive PEM product. However, neither will reflect the latest information on terrestrial ecosystems until the BEC revisions are complete.

Sustainability Relationships: (timber, non-timber, ecological, etc)

TEM is used for a broad spectrum of strategic and operational activities including wildlife, forestry, range, recreation and hydrology. TEM is based on BEC, which is also used for site index correlation, timber supply analysis, meeting FPC requirements, implementing LRMP recommendations and for planning silviculture activities. Many of the strategic planning processes leading to sustainability rely on the accurate representation of terrestrial ecosystems.

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews:
The biogeoclimatic mapping provides an important ingredient to TSR's. Improvement in the accuracy of BGC mapping will lead to improved AAC estimates. TEM/ PEM and correlated SIBEC data is being used as a basis for recommending AAC adjustments that better reflect the actual growth potential of our forests. In addition, the Biogeoclimatic framework provides a bases for grouping sites which are used for yield adjustments, such as non-recoverable losses which include; forest health losses, decay and breakage, regeneration delays etc. An incomplete BEC classification precludes PEM and TEM mapping. The lack of Terrestrial Ecosystem mapping leads to risk and uncertainty around harvest determinations and the planning of harvesting activities.

Non-timber Resource Strategies:
TEM describes ecosystems used for biodiversity management, landscape level planning, habit supply modelling, guidelines for managing species of concern such as Grizzly bear, Caribou, Deer, and numerous non-game species. It also provides a framework for ensuring representative distribution of OGMA's, and a basis for locating red and blue listed ecosystems and species.

SSFM Issue: TEM	**Title: Terrestrial Ecosystems**

LRMPs:
The lack of Terrestrial Ecosystem mapping leads to risk and uncertainty around the LRMP process, its subsequent approval as a higher level plan, and the implementation of management guidelines.

Comments: The BEC refinement work is an ongoing project that is 65% complete. The field sampling phase will be completed in 2002/2003 and new field guides and maps will be published by March, 2004.

4.1.2.9 Terrain Stability

Template 1
Key Regional SSFM Issues

SSFM Sub-Issue: TSM	**Title: Terrain Stability**

Description of the Regional SSFM Sub-Issue:

Insufficient information exists on identifying unstable and potentially unstable terrain to allow reliable forest management decisions and strategic planning throughout the region.

Information on unstable and potentially unstable areas is not available throughout the region. In some areas, the best information available is the old ESA categories. Terrain stability information is required for strategic planning, forest management decisions and determination of the operable land base for the TSR and LRMP processes. Not having this information can lead to caution when setting harvest rates and uncertainty around mitigation of concerns in specific areas or the delineation of 'zones' or management areas for land use decisions. There is also concern, that some of the older TSM data capture and reliability on class 4 & 5 is not in good shape and leading to uncertainty for use in strategic decisions.

Sustainability Relationships: (timber, non-timber, ecological, etc)

Sustainability cannot be achieved without reliable information on the stability of the land base supporting our forest resources. Terrain Stability (TSM) inventories contributes to management decisions; they upgrade the old ESA categories and provide links to other works including watershed restoration, ecosystem mapping, water quality, fisheries management and timber harvesting. These interacting concerns are central to achieving sustainability.

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews:
The lack of terrain stability information leads to risk and uncertainty around harvest level determinations and the planning of harvesting activities. Class 4 & 5 delineation's are uncertain, in some older TSMs, and should be confirmed prior to use in TSR.
Non-timber Resource Strategies:
TSM inventories collect data useful to examine the interaction of spatial planning and non-timber resources.
LRMPs:
The lack of TSM Inventories leads to risk and uncertainty around the Land & Resource Management Planning process and it's subsequent approval as a higher level plan.

Comments: None

4.1.2.10 Visual Aesthetics

Template 1
Key Regional SSFM Issues

SSFM Issue: VA	**Title: Visual Aesthetics**

Description of the Regional SSFM Issue:

Visual quality objectives have not been established on 20% of the land base in the Thompson Okanagan region and two-thirds of areas with VQO's and visual inventories completed are not up to RIC standards. The result is a high degree of uncertainty in the strategic planning, timber supply analysis and forest management processes.

Visual landscape inventories are needed prior to establishing the visual quality objectives for an area. The visual quality objectives (VQOs) quantify the scenic aspects of a land base in terms of management options for resource extraction while considering public perception of visual quality. The VQOs are an integral part of the TSR and LRMP strategic planning process for determining sensitive areas, land base availability and management options.

In the Thompson Okanagan region, visual landscape inventories have not happened on about 20% of the land base and thus VQOs are not available for the strategic planning or even for operational FDP planning. In addition, about two-thirds of the visual mapping that has been done does not meet RIC standards. The older a previous visual inventory is, the less likely it is to be meeting RIC standards.

Sustainability Relationships: (timber, non-timber, ecological, etc)
Visual landscape inventories are both social and ecological concerns. Visual impact of harvesting has highlighted the importance of scenic quality and natural landscapes. The quality of the landscapes is very important to the diverse tourism industry in the Province and an important factor in the achievement of sustainability. Visual inventories provide the basis for recommending scenic areas and VQOs that in turn define levels of visual change on selected areas. As a part of landscape analysis, the VQOs provide options for different styles of management considering the biophysical, economic and social aspects related to sustainability. These objectives impact the available landbase, harvesting constraints and management decisions which in turn affects Timber Supply Reviews (TSR's) and Land and Resource Management Plans (LRMP's).

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews:
The visual landscape inventories and resulting VQOs are a significant consideration in determining the amount and rate of harvest and thus the AAC determination. Constraints on visually sensitive areas also impact the harvesting methods and thus impact timber availability in terms of timing (green up, etc).
Non-timber Resource Strategies:
Visual Aesthetics directly affects the tourism industry, recreationalists and local residents if forestry activities are not designed and implemented consistent with the Visual Quality Objectives (VQO's).
LRMPs:
Stakeholders in the LRMP process have recognised the need and value of visual landscape inventories for sustainability. Incomplete or unreliable inventories do not satisfy the public perception to recognise this resource. Accurate inventories and assessments of impacts are needed to meet the needs of this higher level planning process.

Comments:

4.1.2.11 Vegetation Inventories

Template 1
Key Regional SSFM Issues

SSFM Issue: VRI	**Title: Vegetation Inventory**

Description of the Regional SSFM Issue:

Sustainability, strategic planning and adequate ecosystem management cannot be achieved in some parts of the region, due to a lack of reliable information on the timber and vegetation resources.

Vegetation Inventories (VRI) provides the statistical reliability and basic information on the location and extent of our timber and vegetation resources. Most land management decisions rely on this basic information as the framework for quantifying our vegetative natural resources with their non-vegetative interactions. As the main vegetative layer, timber has previously been inventoried. However, even that inventory is more than 20 years old in some parts of the region, such as the Okanagan TSA, and thus considered unreliable for many purposes.

The non-timber vegetation layers have not been properly inventoried in most of the region. Therefore, we are failing to provide required information for such concerns as wildlife habitat, biodiversity, hydrology, ecosystem productivity, range management options, etc. Some attempts to fill this knowledge gap are being made in the form of PEM and TEM mapping projects. However, these have a limited application and fail to meet the standards needed for many other TSR, NTRS and LRMP needs and recommendations.

The vegetation inventory consists of two phases. **Phase 1** is the classification and mapping of the forest cover, ecological and vegetation attributes. This is the basic inventory that will determine the distribution and coverage of ecosystems, landscape patterns, wildlife habitat values, biological diversity, land sensitivities for forestry, forest and ecosystem productivity, silviculture and harvesting options, and land use planning. Mapped polygons are classified to the B.C. Land Cover Classification Scheme that describes critical assessment of specific tree, shrub, herbaceous, bryoid and non-vegetated communities within polygon boundaries. **Phase 2** is the ground sampling that determines the statistical reliability of the Phase 1 photo-interpretation of given characteristics within the inventory area. The relationship between the polygon estimates and ground samples is used to adjust the Phase I, photo-interpreted polygon estimate and then statistically adjust the inventory for TSR and other uses. Both phases are needed to adequately meet the standards and reliability requirements of adequate vegetation inventories.

Sustainability Relationships: (timber, non-timber, ecological, etc)

Vegetation inventories provide the benchmark for sustainability in terms of identifying what resources we currently have. When that is known, management decisions can then be made for the determination of how much is available for resource extraction, protection, biodiversity, and needs for other resource uses such as wildlife and water quality. Not having this basic information puts all other subsequent decisions at risk and makes the likelihood of achieving sustainability very uncertain.

SSFM Issue: VRI	**Title: Vegetation Inventory**

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews:
The lack of VRI Inventories leads to risk and uncertainty around harvest level determinations and the planning of harvesting activities. Vegetation inventories results in a higher resolution of the timber harvesting land base and allows for a better allowable annual cut (AAC) determination. VRI inventory provides a statistically adjusted database that allows a sustained timber harvest. Better identification of problem forest types and stand structure descriptions will improve the multi-resource management decisions.

Non-timber Resource Strategies:
VRI inventories examine the interaction of spatial planning and non-timber resources. VRI provides vegetation cover information for non-timber resource strategies for wildlife modelling, biodiversity, and ecosystem management and supports Predictive Ecosystem Mapping (PEM).

LRMPs:
Predictive models used in land use planning require a vegetation inventory. The lack of VRI Inventories leads to risk and uncertainty around the Land & Resource Management Planning process and it's subsequent approval as a higher level plan. Many recommendations made in the LRMP process cannot be fully implemented without reliable vegetation information.

Comments: None

4.1.2.12 Water Quality

Template 1
Key Regional SSFM Issues

SSFM Issue: WQ	**Title: Water Quality**

Overview Description of the Regional Strategic Issue:

Water Quality objectives have not been set for many of the Community Watersheds as intended by the Forest Practices Code.

There is a lack of knowledge of the cumulative watershed-wide impacts of timber harvesting and activities such as range and recreation that follow timber harvesting on the quality of water for human consumption in community and domestic watersheds. Many comprehensive studies of the effect of forest management have found road-building and maintenance to be primary sources of sediment and turbidity. While forest harvest can increase sediment and turbidity by erosion from landings, skid trails and slope failures (MacDonald, 1991). Human recreation and livestock grazing in forested areas also can increase sediment yields and turbidity as well as directly impairing drinking water quality by the introduction of pathogenic organisms and nutrients into the water supply. There is a legislated requirement for water purveyors to deliver water to the consumer that is free of bacterial contamination. This is most often accomplished by disinfection with chlorine. Elevated turbidity, excessive bacterial loading and high pH in raw water compromises the ability of chlorine to disinfect drinking water. Turbidity combined with high bacterial counts in raw water are especially problematic because the bacteria attached to particulate matter can survive exposure to chlorine even though there is residual free chlorine present in the finished water. Many outbreaks of human gastrointestinal illness have been traced to bacterial contamination of drinking water. Higher amounts of chlorine added to drinking water leads to potentially harmful levels of disinfection by-products.

Relationship to Sustainable Forest Management:
Maintenance of Environmental Values
The key environmental value is the lack of knowledge of the cumulative watershed-wide impact of logging, road building, grazing and recreation on drinking water quality in community watersheds.

SSFM Issue: WQ	**Title: Water Quality**

Sustainable Use of Timber Resources

The forest planning process may be encumbered by residents' concerns arising mainly from lack of knowledge on impact of logging on water quality. There is a fairly widespread feeling among water purveyors in the Southern Interior that we should adopt the model followed in the Lower Mainland where all activities are prohibited in watersheds that supply drinking water. Knowledge that water quality is being monitored may assuage residents' concerns and remove social impediments to logging. Knowledge that water quality is being protected, as evidenced with hard core information in the form of actual water quality data will permit continued forest development.

Sustainable Use of Non-Timber Resources

It is essential to know the present condition of water quality in order to make land use decisions necessary to protect the water resource, which is an important non-timber resource in community watersheds. Knowledge that water is being degraded may lead to the decision to modify development activity in order to prevent long term degradation of quality. Water quality assessments and objectives provide a yardstick to measure impact of development, prevent degradation of water quality and to initiate corrective measures.

Relationship to Strategic Resource Plans and Decisions:

Objectives and strategies for the Community Watershed RMZ in the Okanagan-Shuswap LRMP requires resource managers to develop water quality objectives for all community watersheds on a priority basis. The Kamloops LRMP requires existing monitoring of water quality in community watersheds to be maintained.

Establishment of water quality objectives for designated community watersheds is a legislated regulation of the Forest Practices Code Act. Lack of baseline information on water quality is a key limitation in the application of the regulation.

The purpose of the TFL 49 Forest Stewardship Project is to develop a results based management model that will improve forest stewardship with the aim of making the Forest Practices Code more efficient without increasing environmental risks. Water quality is one of a number of strategies being developed towards a results based management model.

The Drinking Water Protection Act – 2001 requires assessment of water sources used for human consumption as well providing for a system of sanctions for instances where drinking water quality is caused to be degraded.

Cross Reference to Management Unit Issues:

There are designated community watersheds in all Management Units of the region, so the issue is region-wide. However, watersheds have been prioritized at the Management Unit level.

4.1.2.13 Water Yield

Template 1
Key Regional SSFM Issues

SSFM Issue: WY	**Title: Water Yield**

Description of the Regional SSFM Issue:
Not enough water to meet demands –

In many biogeoclimatic areas within the dry Interior (Kamloops Forest Region), there are a number of watersheds where there is often not enough water supply to meet the various demands.

These demands include; agricultural water use, industrial water use, domestic and municipal water use, and in-stream fisheries and aquatic ecosystem requirements.

- **Problem likely to get worse**: A recent workshop on "Climate Change and Water Management in the Okanagan Basin" suggested that anticipated climate change will exacerbate these issues:

–Earlier peak and earlier minimum flow
–More water shortages (change in timing of flows plus increases in demand due to a longer irrigation season)
–More water from rain and less from snowmelt.
- Changes to fisheries (changes in timing and quality of water supply)

- **Insufficient data to guide management decisions**: The current availability of hydrometric (water supply) information is extremely limited – when compared to 30 years ago we now have approximately 1/3 of the hydrometric stations. Those remaining stations are primarily focussed on public safety (as related to flood forecasting) and the operation of dams. A sound understanding of the water resource in the SIR is severely hampered due to this very limited hydrometric network. The effects of forest management practices on water supply can most readily be detected in smaller-order watersheds. Of the hundreds of third-order (or smaller) "natural" watersheds in the Southern Interior, a mere 3 stations gauge watersheds of less than 15 km^2 (or less than 1% of the SIR landbase) have active hydrometric stations.

An improved knowledge of the water resource is necessary to ensure that existing strategic direction is both (i) appropriate, and (ii) having the desired effect and results.

Sustainability Relationships: (timber, non-timber, ecological, etc)

The Provincial Forest is the primary source area for water supply for in-stream and human use. Understanding how land management practices affect both timber and water supply will aid in maintaining a sustainable resource, community and economic development, and ecological functions that are dependent on water supply. Community needs and ecological functions dependent upon a sustainable water supply include; domestic and agricultural water use, fisheries requirements, and wildlife and biodiversity needs. Having a better knowledge of how land management practices affect water supply may decrease the risk to these social values, and allow for these management practices to be adjusted accordingly.

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews:
As forested watershed areas within the Provincial Forest are the primary "water production areas", there is a significant tie to the Timber Supply Review process. A better understanding of the relationships between forest practices and water supply should allow for more accurate, specific and realistic forest cover constraints to be modelled than those currently used in the TSR process (for both community watersheds and the remainder of the landbase).

SSFM Issue: WY	**Title: Water Yield**

Non-timber Resource Strategies (NTRS):
Water Supply as an issue is identified in the following NTRS documents:

1. Southern Interior Water Resource Strategy
2. Other supporting strategies:
   - Freshwater Strategy for BC (http://www.elp.gov.bc.ca/wat/wrs/freshwater/FSforBC.htm)
   - BC Drinking Water Protection Plan (http://www.elp.gov.bc.ca/wat/wq/dw/index.html)
   - Watershed-Based Fish Sustainability Planning (Provincial/Federal)
   - Watershed Plans and Planning Processes, including:
     - Salmon River Roundtable (www.scrn.org/srwr/)
     - Mission Creek Enhanced Watershed Advisory Committee (EWAC) (http://www.for.gov.bc.ca/ftp/kamloops_region/vernon/external/!publish/web/missioncreek.pdf)
     - Okanagnan Basin Water Board strategy
   - Nicola Basin Strategic Plan

LRMPs: All of the SIR LRMP processes (Kamloops LRMP, the Okanagan-Shuswap LRMP, and the Lillooet LRMP -*draft*) have all identified potential water shortage issues as priorities.

Specific water supply goals as indicated in the Okanagan-Shuswap LRMP include:

- Manage surface water quantity and timing of flow and groundwater sources to meet both in-stream and consumptive requirements
- Ensure that the surface and groundwater sources will continue to provide a healthy, safe and affordable supply of drinking water in the future
- Protect and/or enhance both surface and groundwater quality and quantity
- A hydrological regime that maintains stream and riparian processes.

Similarly for the Kamloops LRMP, specific water supply goals include:

- Identify and consider water tenure opportunities where unlicensed water is still available for licensing within sustainable levels
- Upon completion of watershed assessments, carry out appropriate local level planning and implement procedures to rehabilitate negatively impacted watersheds to improve water quality and/or streamflow regimes to a sustainable level.

Comments:

4.1.2.14 Wildlife & Wildlife Habitat

Template 1
Key Regional SSFM Issues

SSFM Issue: WL	Title: Wildlife

Description of the Regional SSFM Issue:

A reasonable degree of certainty that wildlife and wildlife opportunities (recreational & commercial) are being sustained in concert with forest development requires more information on abundance, composition, distribution, trends, and habitat supply.

The response of wildlife populations to habitat alteration or loss, road access, and hunting strategies needs to be investigated, monitored, documented and mitigated. Addressing these knowledge gaps will also facilitate the implementation of higher level and regional plans as well as the management of timber and non-timber resource development plans. Regional habitat and species knowledge gaps include but are not limited to:

- Inventory and restoration of selected identified, rare and endangered or economically important wildlife and wildlife habitat.
- Habitat analyses and mapping for selected identified, rare and endangered or economically important wildlife.
- Links between resource activities and habitat structure and use. Analyses of existing measures to protect habitat (i.e. OGMAs).
- Planning and implementation of access management associated with forest development.

Sustainability Relationships and Sub-Issues: (timber, non-timber, ecological, etc)

Environmental Values:
In order to maintain sustainable wildlife populations it is essential to have up to date and accurate information on their abundance, composition, distribution, habitat requirements and population trends. Such information is required in order to maintain an abundance of biological and physical diversity, and to maintain ecosystem functions and processes.

Continually developing and incorporating species and ecosystem information into forest management is required to achieve sustainable management. Indirect impacts resulting from forest development can have severe impacts on wildlife, including poaching, harassment, displacement and road kills. These impacts increase as access to wildlife and their habitats increase.

Delaying inventory, research, monitoring and actions to mitigate impacts may result in consequences that require more expensive and intensive management in the long term, especially for rare and endangered species.

Timber
Sustainable use of forest resources will guarantee long term economic opportunities. Maintenance of sufficient wildlife abundance, composition, distribution, habitat requirement and population trend information is required to make informed management decisions and to ensure timber resource use is sustainable. Addressing these knowledge gaps provides the basis for innovative measures that mitigate negative impacts resulting from timber resource use. Such measures allow for multiple resource values to be realised and accounted for.

Effective management reduces the uncertainty around impacts resulting from timber resource use. This will prevent overly conservative impacts to timber supply net-downs and will result in a more predictable and stable timber supply.

SSFM Issue: WL	Title: Wildlife

Non- Timber
Monitoring, inventory, and research eliminates uncertainty that can result in overly conservative estimations of wildlife habitat requirements and impacts from non-timber resource use, which in turn may reduce areas available for the use of non-timber related resources (such as Commercial Recreation and mining). Maintaining healthy ecosystems and wildlife at historical populations is critical for the viability of the burgeoning eco-tourism sector.

Management measures such as access planning, will not only benefit biodiversity and certain wildlife species, they will also be beneficial for other values such as range quality.

Relationship to Strategic Resource Plans and Decisions:

The conservation and management of wildlife and wildlife habitat throughout the Thompson/ Okanagan Region are legislated components of approved regional Higher Level Plans and are included in the Ministry Strategic Objectives. Accurate wildlife and habitat information is required to meet the needs of these regional plans, local resource management objectives, Recovery Plans, as well as the Identified Wildlife Management Strategy.

Addressing knowledge gaps related to wildlife inventory, research and monitoring will aid in Timber Supply Reviews by identifying species and areas where forestry planning requires adaptation to ensure the viability and sustainability of threatened and/or regionally important wildlife. This will also assist in the development of management measures that will allow resource use to continue with minimal impact to wildlife.

The wildlife inventory activities for hunted species are consistent with the Provincial Wildlife Harvest Strategy and the Wildlife Inventory Strategy for Ungulate Game Species in the Southern Interior Region..

Cross Reference to Management Unit Issues (if applicable):
Issues were identified at the regional level. However, some activities will apply only in certain management units.

4.2 Key Regional SSFM Strategies

For each of the fourteen issues identified, a regional strategy has been developed to address and help resolve the issue. The strategic planning processes including TSRs, NTRS and LRMPs were to be the drivers for determining these strategies. The strategies were to be provided on template 2 of the guidelines and are to include a 'performance indicator' that could be used to measure if an issue is being resolved through implementation of the strategy.

4.2.1 Overview of Strategy Determination

In developing the strategy statements, the RPT had to consider what circumstances were needed to consider an issue resolved. Then consideration could be given to what knowledge gaps needed to be filled, what tools were needed, and what sequential order was needed to meet those circumstances. In addition, the recommended activities from TSRs, NTRS and LRMPs need to be completed to be consistent with the strategic planning processes.

Early in the process the RPT determined that the issues and the strategies to address those issues were regional in nature and would be developed from the "top down". However, the opportunities to meet these strategies varied by management unit. Therefore, the recommended activities and tools needed in each management unit should be developed from the "bottom up" consistent with the strategy. Consequently, the strategy statements seldom specify specific works by management unit. Each statement does provide, however, a set of conditions to resolve an issue and some interim targets and performance measures. Each management unit was then tasked with assessing their own opportunities to meet the strategy consistent with local priorities, scheduling needs and available funding. In the future, the performance indicators will be used to assess how well each management unit has met a strategy.

With this in mind, several drafts of the strategies were developed and then improved through the RPT. When reasonably satisfied, the RPT obtained the approval of the IAMC to send the draft to participants for review and comment. As a part of the review, participants were asked to inform any other stakeholders known to have an interest and to solicit their comments. As a part of the review, a meeting with select stakeholders (to keep the meeting manageable) was held on July 10. The reviews resulted in many additional improvements to the drafts. These changes were again reviewed through the RPT and finally accepted. The accepted version was then sent to senior managers in the three ministries for endorsement. They endorsed that the "Issues and Knowledge Strategies are the key priorities to address in the SSFM portion of the RMP for the Thompson-Okanagan Region of FRBC". The endorsed copy was then sent to all participants to guide in the determination of which activities to include into the SSFM recommendations.

It is expected that these strategies for TSAs are also applicable to TFLs and IFPAs and they are encouraged to use them. However, these management units can develop a separate set of strategy statements if it better suits their needs.

An overview of the 14 strategies documented for the Thompson Okanagan Region is provided below.

Code	Title	Regional Strategy Statement
CH	Cultural Heritage	Continue cultural heritage inventories and assessments initiated by bands, tribal councils and historic societies while investigating methods of delivering area based heritage inventories.
FFH	Fish & Fish Habitat	Knowledge strategies to address the fish and fish habitat inventory issue involves a combination of synthesising existing fish and fish habitat information and the collection of new data.
FH	Forest Health	Reduce mortality, growth loss, value reduction and volume declines in second growth forests through a program of monitoring changing health conditions and assessing methods to improve the health, vigor and productivity of the forest land base.
GY	Growth & Yield	Maintain existing growth and yield investments and concentrate future FRBC investments into improving the certainty around predicting stand development and productivity of second growth and complex stands.
IT	Inventory Tools	Provide currently accessible Inventory Tools needed for a variety of SSFM issues in a timely manner consistent with schedules completed for resolving SSFM Issues.
RP	Resource Planning	Assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR.
ST	Stream Temperature	Combine the disparate studies and inventories of existing stream temperature in the Kamloops Region with new temperature data to develop and test a defensible, objective stream management procedure
TEM	Terrestrial Ecosystems	Throughout the region, provide the detailed biophysical attributes of the land base for use in strategic planning and resource management decisions.
TSM	Terrain Stability	Complete the identification and mapping of unstable or potentially unstable terrain throughout the region to provide reliable information for the strategic planning of all resource uses.
VA	Visual Aesthetics	Complete outstanding Visual Landscape inventories and VQO assessments within the Thompson Okanagan region and ensure previously completed inventories and assessments are reliable for use in the strategic planning processes.
VRI	Vegetation Inventories	To achieve sustainability, provide reliable information and mapping of the timber and vegetation resources throughout the Thompson Okanagan region.
WQ	Water Quality	Collect and analyse water samples for a three-year period and gather existing information on hydrology, watershed geography, water use and activities affecting water quality.
WY	Water Yield	Provide for a more sustainable water supply aimed at meeting various demands. Reports from the United States suggest that "optimum water yields can be obtained in snow country when approximately 40% of the watershed area is occupied by small, protected openings"
WWH	Wildlife	The issue will be resolved by a combination of synthesis and analysis of existing wildlife and wildlife habitat information and the collection of new data.

4.2.2 Regional Strategy Descriptions

The 14 regional strategies described in the overview are provided in the following templates consistent with the Provincial guidelines. The templates provide more detail regarding the specifics of the strategy, current status, performance indicators, delivery considerations, and relationships to strategic planning.

4.2.2.1 Cultural Heritage

Template 2
Strategies to Address SSFM Issues

SSFM Issue: CH	**Title: Cultural Heritage**

Strategy to Address the Issue:

Continue cultural heritage inventories and assessments initiated by bands, tribal councils and historic societies while investigating methods of delivering area based heritage inventories.

- Continue to conduct specific cultural heritage inventories (AOA's & AIS's, heritage trails, etc) as proposed by bands, councils and historic societies.
- In 2002, form a partnership group to investigate a process which systematically (watershed by watershed?) assesses the full spectrum of cultural heritage resource values on a given land base.
- Consistent with recommendations of the partnership group, implement a pilot project in 2003 for an area based CH inventory.
- Provide extension services to practitioners on how to access and utilize the information.

Status of Existing Knowledge: (completed & ongoing)
A data gap analysis of all culture and heritage projects conducted in the Kamloops forest region was completed in May, 2001.
Completed: Cultural Heritage inventories and assessments have been conducted over the years as needs arise. Works have generally been directed towards areas where conflicts are possible or already exist.
Ongoing: Currently there are 13 cultural heritage projects in progress and 6 of those are scheduled to continue into the coming year.
Additional Gaps: In the past, specific concerns for specific areas have been inventoried. However, it is estimated that less than 10% of the region has cultural heritage inventories and assessments. Significant information gaps exist.

Required Activities & Dependencies to Implement the Strategy: (remaining needs)

Organizational: Form a partnership group to implement a pilot project which conducts a full cultural heritage inventory over a selected small land base. The pilot project would investigate process, standards, data management and implications of full cultural heritage inventories. This pilot could address linking archaeological and traditional use field work on the same land base.
Resource Inventories: Continue those cultural heritage inventories in progress. Continue to solicit works and priorities from bands and involve aboriginals in the delivery of CH inventories as much as possible.
Data, Plans, Research or Analysis: Methods to improve delivery of cultural heritage inventories needs to be investigated. Data base management needs further consideration including how practitioners can access and utilize the information gathered.
Scheduling and Implementation: Implement high priority inventories requested by bands and councils. Priority given to updating existing AOA's and trail inventories.

SSFM Issue: CH	**Title: Cultural Heritage**

Sustainability and Performance Indicators:

Conditions to Resolve Issue and Achieve Sustainability:
Site identification and significance assessment will be an on-going process. However, the issue can be considered resolved when an area based inventory of all cultural heritage values has been completed, mapped, assessed, and those incorporated into the resource planning and management processes. Any subsequent problems can then be managed through operational planning processes.

Interim Targets, Milestones and Performance Measures:
If the current cultural heritage inventories and assessments can eliminate resource use problems prior to conflict between stakeholders, then they are considered a success. CH inventories should not drop below current levels of delivery until the issue is substantially resolved. As an interim target, a minimum of 10 projects to determine location and/or significance of cultural heritage should be undertaken each year in the Thompson Okanagan region.

Relationship to Other Strategies or Issues:
The cultural heritage inventories and significance assessments have direct links to timber supply analysis, LRMP's, and to the non-timber resource strategies and thus higher level plans. These directly affect timber availability and other resource uses. This CH data would be helpful for the treaty process.

4.2.2.2 Fish & Fish Habitat

Template 2
Strategies to Address SSFM Issues

SSFM Issue: FFH	**Title: Fish and Fish Habitat**

Strategy to Address the Issue:

Knowledge strategies to address the fish and fish habitat inventory issue involves a combination of synthesising existing fish and fish habitat information (i.e. fish distribution modelling) and the collection of new data (i.e. reconnaissance and species specific inventories).

Provincial and regional standards currently exist for the collection of new data as well as the use of existing data.

SSFM Issue: FFH	**Title: Fish and Fish Habitat**

Status of Existing Knowledge:

Organization, Synthesis and Analysis:
The MOELP has developed tools and standards that are specifically designed for the collection and analysis of fish and fish habitat inventory data suitable for addressing the knowledge gaps identified in Issue 1.

Inventory:

- Reconnaissance 1:20,000 inventories have been conducted on approximately 45% of the Thompson\Okanagan Region with inventory of fish and fish habitat still lacking in large amounts of forested, agricultural and private lands throughout the region.
- Overview level and species specific inventories have been conducted sporadically throughout the region. Crucial inventory gaps exist on the status and distribution of rare, endangered and regionally significant fishes.
- Comprehensive analysis tools for the formation of predictive models (FHAT20) of fish and fish habitat have recently been developed and are currently being implemented on fish and fish habitat inventory databases. Outcomes from the modelling process include statistically valid predictions of fish and fish habitat distribution which can be used by fisheries managers to estimate habitat capability and by regional and local planners to develop management zone planning documents such as Local Area Agreements (LAA's).

Extension*:*
Fish and fish habitat inventory data is collected, analysed and prepared so that the results are applicable to fisheries managers, regional planners and the operational needs of forest licensees.
Specifically, inventory data provides information that supports planning at the regional and landscape levels. Completed reports, including raw data from fish and fish inventory projects have been made available to the public through provincial internet sites and are consistent with the goals of the provincial Integrated Data Management Initiative (IDMI).

Research:
Research activities related to fish and fish habitat within the region has focused on the creation and refinement of fisheries management techniques specific to threatened and endangered fish populations.

Monitoring:
Staff and funding shortages at the Provincial and Regional levels have limited the monitoring of fish and fish habitat to a limited number of rare or threatened fish stocks (i.e. bull trout, and kokanee stocks)

SSFM Issue: FFH | Title: Fish and Fish Habitat

Required Activities & Dependencies to Implement the Strategy

Organization, Synthesis, Analysis:
Inventory activities will be directed by regional fisheries biologists to insure that information is collected according to standard formats and from areas or populations where data gaps may hinder the decision making ability of regional, local and operations planners. Analysis is required to demonstrate the benefits of conducting and implementing proposed inventory activities versus implementing potentially conservative default fish distribution and composition guidelines.

Resource Inventory:
To meet the key SSFM regional issues related to fish and fish habitat knowledge gaps the following programs must either continue or be expanded throughout the Kamloops Forest Region:
1:20,000 Reconnaissance Level Fish and Fish Habitat Inventories (continuation),
Fish habitat modeling (FHAT20) for the refinement of collected fisheries information (expanded),
Overview and species specific inventories required to fill information gaps on regionally specified fish species (expanded),
Fisheries stock assessments on potentially impacted fish populations (expanded, FRBC ineligible),
Recreational fisheries assessments (expanded, FRBC ineligible),

Extension:
As with previous fish and fish inventory data collected within the Region, results of fish and fish habitat information will be available for inclusion into regional, local and operation planning processes, will be made available through provincial internet sites and will meet IDMI goals.

Research:
The Ministry will continue to explore strategies and techniques that will increase the quality and quantity of inventory techniques. Specific emphasis will be placed on investigations that explore innovative and cost effective means to comprehensively collect viable fisheries data for the management of regional fisheries.

Monitoring:
In order to meet the requirements and recommendations outlined in regional plans (LRMP's, IFPA's) and Ministry strategic objectives, funding will be sought to increase the monitoring of identified fish and fish habitat. Specifically, monitoring will be focused on collecting information to evaluate the effectiveness of management decisions and land-use activities which were implemented to protect or conserve regionally identified fish and fish habitat.

Define Performance Indicators, Targets & Milestones:

Conditions to Resolve Issue and Achieve Sustainability:
In order to resolve the Fish and Fish Habitat Inventory issue, distribution and composition information needs to be understood for all watersheds with the Kamloops Forest Region. Given the dynamic nature of fish and fish habitat, collection and monitoring techniques will be continually conducted to assess sustainability. However, sustainability monitoring and inventory requirements will be significantly less then those required to fill existing knowledge gaps.

SSFM Issue: FFH	**Title: Fish and Fish Habitat**

Interim Targets, Milestones and Performance Measures:

Addressing issues related to Fish and Fish Habitat Inventory knowledge gaps within the Region will aid in fulfilling Higher Level Plan and operational plan requirements. The completion rates for this strategy are as follows:

- Completion of 1:20,000 Reconnaissance Inventories on all high priority watersheds by 2005 and on the remaining 55% of the Kamloops Forest Region land-base by 2007.
- Incorporate 50% of existing Reconnaissance Fish and Fish Habitat Inventory into the modelling process by 2005 and 75% of existing Fish and Fish Habitat Inventories by 2007.
- Complete comprehensive inventories on 25% of the regional specified fish stocks by 2007

The delivery of fish and fish habitat data to meet Fisheries Issues knowledge gaps are constrained internally by work load restrictions on regional inventory biologists and externally by the number of qualified independent contractors. Multiyear funding allocations are the most efficient and cost effective means to meet knowledge strategy targets and milestones. Additionally, recommended investments for Activity are project based.

Relationship to Other Strategies or Issues:

Fish and Fish Habitat Inventory Issue is related to Issues # (Stream temperature) and Issue # (Water Quality). Stream flow, water quality and stream temperatures are often limiting factors of fish production and fish habitat. Data and information collected under Issues #, and # will contribute to Fish and Fish Habitat Inventory knowledge strategies and activities.

4.2.2.3 Forest Health

Template 2
Strategies to Address SSFM Issues

SSFM Issue: FH	**Title: Forest Health**

Strategy to Address the Issue:

Reduce mortality, growth loss, value reduction and volume declines in second growth forests through a program of monitoring changing health conditions and assessing methods to improve the health, vigor and productivity of the forest land base.

NOTE: The actual delivery of Forest Health "treatments" in second growth stands is under the Sustainable Harvest component of the RMP. The mature components of the forest are not generally considered eligible for FRBC funding.

- Annually assess landscape level health concerns in second growth forests through an overview flight.
- Continue to quantify the impacts of root rots and other damaging agents (non-recoverable losses) in second growth forests for predictive modelling in TSR and other strategic planning processes.
- Actively investigate methods to improve the health of second growth stands in major timber types across the region.
- For damaging agents with cyclic patterns, develop models to predict their re-occurrence and potential degree of damage for use in strategic planning and resource management decisions.
- Quantify damaging agents according to their impacts on disturbance regimes and biogeoclimatic zones and for use in predictive modelling.

SSFM Issue: FH	**Title: Forest Health**

Status of Existing Knowledge: (completed & ongoing)

Completed: Some work on the cycles of certain insects has been done but not formalized into predictive models for use with TSR, LRMPs or NTRS.
Ongoing: The overview flight to annually assess forest health conditions in second growth is an ongoing investment through FRBC to the regional MOF program and should continue. Some investigative work into root rots will carry over from the previous investment plan.

Required Activities & Dependencies to Implement the Strategy: (remaining needs)

Organizational: Results from the annual overview flight must be assessed and mapped. These results must be made available to stakeholders involved with forest health treatments under SH and operations.
Resource Inventories: "Inventories" of damaging agents are difficult due to their annual nature. The annual overview flight will satisfy the basic need for a FH inventory.
Data, Plans, Research or Analysis: Develop better methodologies for early detection and impact assessment of damaging agents. Complementary to this, investigate innovative technologies to manage forest pests with emphasis on the root rot problems.
Scheduling, Implementation, Monitoring: Continue to annually monitor damaging agents through overview flights with dissemination of results to forest managers.

Sustainability and Performance Indicators:

Conditions to Resolve Issue and Achieve Sustainability:
Damaging agents will be an issue until we can ameliorate their impact on timber supply while balancing the beneficial aspects of these with other forest resource needs. The complexity of this issue means that it will be a long term concern of forest managers.
Interim Targets, Milestones and Performance Measures:

- Provide annual overview flights in the time windows needed with dissemination of results to forest managers.
- Provide reliable non-recoverable loss data on damaging agents for use in predictive models within five years.
- Initiation of investigations into methods to improve forest health in second growth stands within three years.
- Have quantifiable data on damaging agents by disturbance regime and biogeoclimatic zone within five years.

Relationship to Other Strategies or Issues: The health of the forests has direct links to and impacts on all other aspects of strategic planning, forest management and sustainability. Forest health can positively or negatively impact the non-timber as well as the timber resources.

4.2.2.4 Growth & Yield

Template 2
Strategies to Address SSFM Issues

SSFM Issue: GY	**Title: Growth and Yield**

Strategy to Address the Issue:

Maintain existing growth and yield investments and concentrate future FRBC investments into improving the certainty around predicting stand development and productivity of second growth and complex stands.

- Remeasure existing permanent samples (PSPs) as required after establishment to continually improve estimates of tree growth and stand development.
- Establish new PSPs to improve productivity and stand development knowledge but only in years when there are fewer than 150 existing PSPs to remeasure (none in 2002) and place emphasis on establishing these in second growth and complex stands.
- Establish temporary samples such as SIBEC and/or paired plots to improve site index and growth estimates on second growth and complex stands within the major biogeoclimatic ecotypes.
- In 2003 initiate a GY "monitoring" program consistent with a workplan developed in 2002.
- Prepare and implement a regional workplan to reduce uncertainty around OAFs in major forest types and for pest monitoring by 2004.
- Ensure sufficient data is available to develop, calibrate and validate the second growth and complex stands in predictive models.
- Explore use of alternative models in Kamloops Region conditions.

Status of Existing Knowledge: (completed & ongoing)

Completed: Existing sample plots provide a point-in-time measurement whereas permanent samples provide a continuing history of stand dynamics (growth & mortality) that is invaluable for GY projections. Over 1000 PSP's in the Region have been remeasured for 30 years, on average. However, they do not cover an adequate range of stand conditions, particularly second growth stands. Some sampling has been done for OAFs, paired plots and SIBEC but the quantities remain insufficient for reliable predictions. Little has been done to monitor predicted growth or yields to verify that predictions are reasonably accurate.
Ongoing: PSP remeasurement is an ongoing commitment for maintenance of previous investments. For 2002, a total of 206 PSPs are scheduled for remeasurement. Although this need has been identified in the three previous RMPs, the target funding in the ground rules has not been adjusted this year to account for this peak in the remeasure cycle. Other GY sampling activities can vary annually and may have to be delayed to meet the PSP remeasurement needs in 2002.

Required Activities & Dependencies to Implement the Strategy: (remaining needs)

Organizational: Through the Southern Interior Growth and Yield Co-operative (SIGY), develop a workplan with recommendations on delivery of GY Monitoring and OAF sampling. This organization could also provide valuable assistance in determining priorities to fill gaps in the sampling matrix and links to needs being identified through the IFPAs.

SSFM Issue: GY	**Title: Growth and Yield**

Resource Inventories: GY data is used by most resource inventories to project future stand conditions and to update older data. In turn, most of those resource inventories are used in strategic planning and resource management decisions. The GY data provides the supporting mensurational data for many aspects of sustainability. Gaps in the GY database need to be filled to support these processes.

Data, Plans, Research or Analysis: A regional workplan for GY Monitoring and OAF sampling is needed. A gap analysis of future needs under the sample matrix should be updated with emphasis on second growth stands. In the near future, analysis and/or research on second growth stand dynamics (ie: ingress and egress) should be investigated for use in predictive models.

Scheduling and Implementation: The PSP remeasurement schedule is already established on the ten year remeasurement cycle with 206 plots due in 2002, 32 due in 2003, 88 due in 2004 and 7 due in 2005. Establishment of new PSPs should be concentrated into years that have few PSPs scheduled to remeasurement. None should be established in 2002, and then a minimum of 30 in each of the remaining years of the plan. Establishment should probably be futher accelerated in 2005. SIBEC and paired plot sampling should be delivered as funding permits in relation to other priorities. The workplan for OAF and GY Monitoring should be developed in 2002 with recommended delivery commencing in 2003.

Sustainability and Performance Indicators:

Conditions to Resolve Issue and Achieve Sustainability:

It is unlikely that we will ever have enough information about the growth and yield of our complex and ever changing forest ecosystems. However, the issue can be considered substantially resolved when there is a long-term commitment to maintain existing data such as PSPs and we have confidence in the GY projections on second growth stands.

Interim Targets, Milestones and Performance Measures:

- Remeasure all PSPs every five years after establishment.
- Establish 100 PSPs concentrated in second growth stands between 2003 and 2006.
- Develop a workplan for OAFs and GY monitoring in 2002 and begin implementation in 2003.
- Establish a minimum of 250 SIBEC samples and/or paired plots by 2006.

Relationship to Other Strategies or Issues: The GY strategy has direct links to most of the recommended strategies directed towards TSR, LRMP, NTRS and sustainability.

4.2.2.5 Inventory Tools

Template 2
Strategies to Address SSFM Issues

SSFM Issue: IT	**Title: Inventory Tools**

Strategy to Address the Issue:

Provide currently accessible Inventory Tools needed for a variety of SSFM issues in a timely manner consistent with schedules completed for resolving SSFM Issues.

- Provide aerial photography, softcopy and orthophoto production for VRI, PEM, TEM, TSM, Spatial Planning and other uses consistent with a stakeholder approved schedule.
- Provide those for Phase 1 VRI and PEM in the Okanagan TSA as an initial priority and start aerial photography in the Lillooet TSA.
- Provide Nad 27 & 83 for resolving planning issues in the Merritt TSA.
- Assess and determine the timing needs of other tools needed for a variety of SSFM issues.

Note: Advance scheduling for delivery of some tools such as air photography can often lead to significant cost reductions.

Status of Existing Knowledge:

Completed: Air photo projects have been conducted over the years as needs arise and funding becomes available. However, a lack of co-ordination and available funding has resulted in some areas receiving these a second time while other areas still have a need. These tools are not necessarily being delivered where there is the highest need or will do the most good.

Ongoing: Currently IT projects are on going. Okanagan photos are scheduled for delivery in 2001.

Additional Gaps: A number of tools are not available in all delivery centres. These gaps need to be identified and a schedule developed to ensure their availability when needed to resolve other concerns.

Required Activities & Dependencies to Implement the Strategy:

Organizational: Continue or implement working groups by TSA. These should assess, schedule and recommend the optimal timing for delivery of the needed inventory tools.

Resource Inventories: An inventory of what tools are available and where is needed.

Data, Plans, Research or Analysis: The availability and implementation needs of multipurpose tools should be assessed across the region with a schedule developed for delivering tools on a priority basis.

Scheduling and Implementation: Immediately known needs are the air photos, softcopy and orthophoto productions needs in the Okanagan, the NAD 27&83 in the Merritt and the air photo needs in the Lillooet.

Sustainability and Performance Indicators:

Conditions to Resolve Issue and Achieve Sustainability:

The issue will be considered resolved when a co-ordinated schedule for the delivery of existing inventory tools has been developed for the region and implementation is proceeding according to schedule.

Interim Targets, Milestones and Performance Measures:

- First priority is to start the photos, softcopy and orthophoto production for VRI Phase 1 in the Okanagan TSA. This is necessary to start VRI and or PEM.
- Start aerial photography in the Lillooet TSA.
- Nad 27 & 83 issue for Planning in the Merritt TSA.

Assess and determine the timing needs of other tools needed for a variety of SSFM issues.

SSFM Issue: IT	**Title: Inventory Tools**

Relationship to Other Strategies or Issues:
Providing the needed tools to do the job has direct links to all other strategies or issues. This issue is directed at providing those tools needed for most or many SSFM projects and inventories.

4.2.2.6 Resource Planning

Template 2
Strategies to Address SSFM Issues

SSFM Issue: RP	**Title: Resource Planning**

Strategy to Address the Issue:

Assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR.

- Review and document the resource plan recommendations provided in TSR, NTRS and LRMPs.
- In 2002, assess the relative priority of those planning requirements and develop a logical schedule of delivery by TSA.
- Implement the planning schedule within each TSA beginning in 2002.
- Continue any resource planning processes currently in progress that are strategic rather than operational.

Status of existing knowledge:

Completed: About 70% of the region is nearing completion of the data analysis phase for identifying candidate OGMA stands. WTR targets have been identified and a separate process for tracking of wildlife tree retention (patches) is or soon will be implemented in all districts. Landscape unit planning is in progress. Spatial planning is underway in some TSAs but lacks prioritization or scheduling for priorities.
Ongoing: Several resource planning projects are in progress and should continue if strategic in nature.

Required Activities & Dependencies to Implement the Strategy:

Organizational: Each management unit should form a working group to identify, assess and prioritize their resource planning needs. A regional working group should then combine these into a set of recommendations for FRBC..
Resource Inventories: Most of the resource planning for sustainability will depend on the availability and reliability of other resource inventories. Where information is unknown or missing, references will be needed to document future recommendations.
Data, Plans, Research or Analysis: Additional research or analysis may be necessary as a result of needs identified in the resource planning processes.
Scheduling and Implementation: For TSAs with currently completed LRMPs (Kamloops and Okanagan) priorities for resource plans should be established in 2002. Where no LRMP is currently scheduled (Merritt) or is in process (Lillooet) the timeline should coincide with completion of the LRMP.

SSFM Issue: RP	**Title: Resource Planning**
Sustainability and Performance Indicators: **Conditions to Resolve Issue and Achieve Sustainability**: Resolution will occur when all recommended resource plans from TSR, NTRS and LRMPs have been prioritized, scheduled and completed. **Interim Targets, Milestones and Performance Measures**: Begin implementation of a scheduled resource planning process in Kamloops and the Okanagan in 2003. Lillooet should be targeted for 2003 but may have to be delayed depending on completion of the LRMP. Merritt should have a prioritized schedule for delivery of resource plans as soon as their LRMP is approved.	
Relationship to Other Strategies or Issues: Many other resource uses will depend on recommendations developed through the resource planning processes.	

4.2.2.7 Stream Temperature

Template 2
Strategies to Address SSFM Issues

SSFM Issue: ST	**Title: Stream Temperature**
Overview Description of the Knowledge Strategy: **Combine the disparate studies and inventories of existing stream temperature in the Kamloops Region with new temperature data to develop and test a defensible, objective stream management procedure.** The procedure would be regionally applicable using empirical results, statistical techniques and stream temperature physics.	
Status of Existing Knowledge: Stream temperature data has been collected for two years in parts of the Nicola River watershed, and summarized in progress reports. Preliminary stream management tools for forestry have been identified: these now need to be tested in current and new areas to prove their operational utility. Because of the complexity of factors affecting stream temperature (such as groundwater inflows) and unique glacial features of the Kamloops Region affecting stream temperature, it is anticipated that testing and refinements will necessarily extend over a number of years. Other stream temperature inventories exist in the Kamloops Region although these have not been compiled in a central data base, and they are scattered geographically. Linkages have been established between the Nicola study and Ministry of Forest experts in Williams Lake and researchers at the University of British Columbia (e.g. Dr. D. Moore). Pat Teti, MoF Williams Lake, has summarized the stream temperature literature and logging impacts. Knowledge extension has been from Washington state and Dr. K. Sullivan, currently with the Sustainable Ecosystems Institute in Oregon a sustainable institute, who continues to advise the Nicola project as a scientific expert.	

SSFM Issue: ST	**Title: Stream Temperature**

Describe the Required Knowledge-Building Activities in these Areas

Organization:

A committee of licensees and agencies will organize data collection, analyses, reviews and objective setting based on an adaptive management approach. In this way, annual objectives are set as new information becomes available from the previous year, other studies and guidelines, or as interpretations of the Temperature Sensitive Designation evolve. An important component will be peer review of reports to maintain standards and to ensure consistency in direction. The existing Nicola Temperature Sensitive Stream Committee may be an appropriate instrument to carry out this task.

Resource Inventory:

Increased data collection of stream temperature at S4, S5 and S6 streams to verify trends by stream class, biogeoclimatic zone, elevation, and shade levels. Testing of a toolkit for stream temperature management at unlogged and logged blocks, including verification of thermal recovery models at logged openings and downstream of openings. Regionalization of the stream temperature management procedure.

Extension:

Presentation of data summary and stream temperature management procedure to agencies, licensees and organizations. Development of an operational field card for stream temperature management for forestry licensees.

Research:

Groundwater inflows, modeling, and comparison of shade measurement methods. Application of aerial thermal infra-red technology (e.g. FLIR or surrogate) to detect areas of cool-water inflow and hot spots in streams to focus ground-based inventories and stream rehabilitation works.

Monitoring:

Pre and post logging stream temperature monitoring to correlate shade recovery and stream temperature trends over time. Pre and post logging groundwater fluctuations and influence to stream temperature.

Strategy Implementation:

A stream management procedure is urgently needed in the Merritt District. The committee established there at the MoF office has been through two years of forming and brainstorming and has evolved to the performing stage. Personnel are well- versed on technical issues and actively contribute information and feedback from a diverse group of Provincial agencies and organizations at regular meetings. The committee is therefore able to manage reviews of new data collection, participate in test procedures, and prioritize objectives. Results and outcomes of the committee can be extended to other districts within the Kamloops Region.

Define Performance Indicators, Targets & Milestones:

Testing of a preliminary toolkit for stream temperature management will begin in the 2001 summer. A verified, operational procedure may require several additional years. Important steps of the process are shown below.

	% Completion	Date
1. Establish stream temperature committee or use existing Nicola Committee. Assemble data-base of stream temperature, historical and current. Create summary report with prioritized objectives.	25 %	March. 2002
2. Stream temperature data summary and analyses in the Nicola River; testing of draft stream temperature management procedure.	60 %	March. 2003
3. Completion of decision matrix for stream temperature management procedure. Extension to Districts or Regions.	100%	March. 2004

Describe Relationship to Other SSFM Knowledge Strategies :

Inter-related to management of salmon species and bull trout, both of which are regionally important in the Kamloops region. *Investment stages can be determined by the committee.*

SSFM Issue: ST	**Title: Stream Temperature**
Cross Reference to Management Unit Activities: Completed products will be of interest to all management units.	

4.2.2.8 Terrestrial Ecosystems

Template 2

Strategies to Address SSFM Issues

SSFM Issue: TEM	**Title: Terrestrial Ecosystems**

Strategy to Address the Issue:

Throughout the region, provide the detailed biophysical attributes of the land base for use in strategic planning and resource management decisions.

A 6 year program to complete revisions of the BEC classification is 65% complete. This provides a critical framework for numerous planning and management activities and PEM. BEC revisions and map refinements will be completed in 2001 for the SW portion of the Okanagan TSA. PEM should then start for this portion of the TSA in 2002 while the BEC refinement work is completed for the remainder of the TSA in 2002. PEM mapping can then follow for the remainder of the TSA in 2003. BEC refinement sampling and PEM sampling are being completed jointly for the North Thompson area and map production is targeted for 2003. Biogeoclimatic Ecological Classification (BEC) should be completed in a given geographic area prior to initiating a PEM project. If Regional funding is limited, the BEC refinement activities should be given the highest priority for completion.

Status of Existing Knowledge:

Completed: TEM mapping has been completed for approximately 500,000 ha in the Kamloops Region, additionally, PEM has been completed for about 450,000 ha

Ongoing: Currently there are 3 ongoing PEM projects which include the entire Merritt and Lillooet TSA's and plus about 700,000 ha in the upper North Thompson.

Additional Gaps: Stakeholders in the Okanagan TSA have identified PEM as a priority inventory. When complete there will only be about 40% of the Kamloops TSA left to be mapped in the Kamloops Region..

Required Activities & Dependencies to Implement the Strategy:

Organizational: BEC revisions and map refinement activities are being completed under the direction of the MoF regional research ecologist. This arrangement should continue, to ensure continuity and consistency across the Region.

Resource Inventories: Continue BEC refinement and PEM projects in progress.

Data, Plans, Research or Analysis: .

Scheduling and Implementation: (See the strategies paragraph).

Sustainability and Performance Indicators:

Conditions to Resolve Issue and Achieve Sustainability: For this plan the issue will be considered resolved when the current BEC revisions are complete and reliable biophysical attributes are provided for the regional land base that allows certainty around other planning processes such as TEM/PEM.

SSFM Issue: TEM	**Title: Terrestrial Ecosystems**

Interim Targets, Milestones and Performance Measures:
BEC is 65% complete and target completion of revisions with field guides for 2004. Complete SW Okanagan in 2001, which would allow PEM in this area to begin in 2002. Complete remainder of Okanagan BEC in 2002 and North Thompson BEC in 2003.

Relationship to Other Strategies or Issues:
Terrestrial Ecosystem mapping has direct links to timber supply analysis, LRMP's and thus higher level plans, and to the non-timber resource strategies. These directly affect timber availability and other resource uses.

4.2.2.9 Terrain Stability

Template 2
Strategies to Address SSFM Issues

SSFM Sub-Issue: TSM	**Title: Terrain Stability**

Strategy to Address the Issue:

Complete the identification and mapping of unstable or potentially unstable terrain throughout the region to provide reliable information for the strategic planning of all resource uses.

- Complete Level C (detailed TSM – DTSM) mapping of areas with steep and complex terrain, especially those areas being considered for resource planning or other development. Priorities should also be placed where TSM information is needed for links to watershed restoration works.
- Provide some monitoring of class 4 & 5 delineation's on older TSM projects to confirm or upgrade this to current standards.
- Level D (reconnaissance TSM – RTSM) should be targeted towards large areas of gentle terrain with fewer potential land-use conflicts. Level D works can be delayed in favour of higher priority works as necessary.
- Continue with TSM projects currently in progress.

Status of Existing Knowledge:
Completed: TSM inventories and assessments have been conducted over the past 5 years.
Clearwater Forest District approximately 50% complete.
Kamloops Forest District approximately 70% complete.
Salmon Arm Forest District approximately 70% complete.
Vernon Forest District approximately 70% complete.
Penticton Forest District approximately 60% complete.
Merritt Forest District approximately 35% complete.
Lillooet Forest District fully completed.
NOTE: some of the above should be monitored to assess the reliability of class 4 & 5.
Ongoing: Currently there are 8 TSM Inventory projects in progress.

Additional Gaps: Those areas not currently mapped for TSM should be completed to bring the region to a consistent level of reliability. Identify and complete those gaps.

Required Activities & Dependencies to Implement the Strategy:

Organizational: In place and functional. Consideration for class 4 & 5 monitoring may have to be added.

Resource Inventories: Schedules and links exist.

SSFM Sub-Issue: TSM	**Title: Terrain Stability**

Data, Plans, Research or Analysis:

Scheduling and Implementation: Details on specific locations can be provided.

Sustainability and Performance Indicators:

Conditions to Resolve Issue and Achieve Sustainability:

The issue of terrain stability will be considered resolved when reliable maps of the potential hazards are identified throughout the region.

Interim Targets, Milestones and Performance Measures:

TSM inventories should be targeted for completion throughout the region by 2004 and these inventories should not drop below current levels of delivery.

Relationship to Other Strategies or Issues:

TSM inventories have direct links to timber supply analysis, LRMP's and thus higher level plans, and to the non-timber resource strategies. These directly affect timber availability and other resource uses.

4.2.2.10 Visual Aesthetics

Template 2
Strategies to Address SSFM Issues

SSFM Issue: VA	**Title: Visual Aesthetics**

Strategy to Address the Issue:

Complete outstanding Visual Landscape inventories and VQO assessments within the Thompson Okanagan region and ensure previously completed inventories and assessments are reliable for use in the strategic planning processes.

- Continue to conduct specific Visual Landscape Inventories as proposed by TSR and LRMP processes.
- Fill the Visual Landscape inventory gaps and VQO determinations on the incomplete 20% of the region with priority on the "Lakes Inventories" and their VQO determinations.
- Update to current RIC standards, any Visual Landscape Inventories and VQO determinations on areas where this information is more than 10 years out of date.
- In 2002, prepare a plan for replacing unreliable VLI and VQO determinations over a ten-year period.

Status of Existing Knowledge: (completed & ongoing)

Completed: About 80% of the region has previously had VLI and VQO inventories and assessments completed but the standards to which these were done prior to 1992 are inadequate. About two-thirds of this old information (pre 1992) is not to RIC standards.

Ongoing: Work has been completed in previous years and is ongoing in an attempt to meet the above strategies.

Required Activities & Dependencies to Implement the Strategy: (remaining needs)

Organizational: Continued review of TSR and LRMP recommendations is needed to complete recommendations made by those stakeholders.

Resource Inventories: The Visual Landscape Inventories (VLI) are needed prior to VQO assessment and determination.

SSFM Issue: VA	**Title: Visual Aesthetics**

Data, Plans, Research or Analysis: VLI and VQO data is needed for the analysis, options development and recommendations in TSR and LRMP plans. This same information is utilized in the development of forest development plans. Many of the forest management determinations (block size, green up, silvicultural system, etc) also need this information to adequately assess options.

Scheduling, Implementation, Monitoring: A schedule needs to be developed and implemented for replacing those VLI and VQO inventories and assessments that are unreliable due to improved RIC standards for these activities.

Sustainability and Performance Indicators:

Conditions to Resolve Issue and Achieve Sustainability:

The issues around visual aesthetics will be considered resolved when the knowledge gaps have been filled (ie: complete the 20% not done) and the entire region has visual information that meets the current RIC standards for visual aesthetic concerns.

Interim Targets, Milestones and Performance Measures:

- Fill the knowledge gaps in VLI and VQO assessments by 2004.
- Bring the entire region up to current RIC standards for visual aesthetics by 2011.
- In 2002, prepare a schedule for replacing unreliable VLI and VQO determinations over a ten-year period.

Relationship to Other Strategies or Issues: The visual inventories and VQO assessments have direct links to timber supply analysis, LRMP's and thus higher level plans, and to the non-timber resource strategies. These directly affect timber availability and other resource uses.

4.2.2.11 Vegetation Inventories

Template 2
Strategies to Address SSFM Issues

SSFM Issue: VRI	**Title: Vegetation Inventory**

Strategy to Address the Issue:

To achieve sustainability, provide reliable information and mapping of the timber and vegetation resources throughout the Thompson Okanagan region.

Vegetation inventories are needed and must be provided to RIC standards. Within the Thompson Okanagan region the requirements include:

- Replacement of the old "forest cover" inventories that are more than 20 years out-of-date with the new phase 1 vegetation inventories. First priority is on the Okanagan TSA.
- Complete the statistical reliability determinations (phase 2 sampling) on those TSAs in progress (Lillooet and Merritt TSAs).
- Investigate methods of delivering the new vegetation inventory at less cost, including completion of the Kamloops TSA Phase 1 Retrofit.
- As the non-timber vegetation components are inventoried, complete or update other resource planning processes reliant on this information such as PEM, TEM, biodiversity, habitat, etc.

Note: Delivery of vegetation inventories has direct links to the air photography and softcopy portions of the issue entitled "Inventory Tools". The softcopy aspects are also a possible cost reduction consideration on delivery of VRI.

SSFM Issue: VRI	**Title: Vegetation Inventory**

Status of Existing Knowledge:

Completed: VRI Phase I and II completed for TFL 49. VRI Phase I completed for TFL 15, with ongoing Phase II work in progress. Adam's Lake Interfor operating area has Phase II on the existing inventory. Lillooet TSA Phase II is 80% completed on the existing inventory. Merritt TSA Phase II is 80% completed on the existing inventory.

Ongoing: Lillooet TSA Phase II, Kamloops TSA Phase II and TFL 15 Phase II. The Kamloops TSA Phase 1 Retrofit was started and then left in a state of limbo. Okanagan TSA air photography is being completed in 2001 in preparation for the Phase 1 VRI.

Additional Gaps: Okanagan TSA Phase I and II is first priority since the existing timber inventory is of 1960's and 1970's vintage.

Required Activities & Dependencies to Implement the Strategy:

Organizational: Although VRI in other regions is being 100% funded through FRBC, there seems to be reluctance locally to take this approach. The cost sharing versus total funding through FRBC needs to be resolved.

Resource Inventories: Timber and the total inventory of the vegetation resources needs to be completed as per the bullets in the strategies section.

Data, Plans, Research or Analysis: Completed for VRI Strategic Inventory Plans for all TSA's.

Scheduling and Implementation: Implement Okanagan VRI in 2002 after receipt of the new air photography and continue phase 2 in the Lillooet and Merritt TSAs.

Sustainability and Performance Indicators:

Conditions to Resolve Issue and Achieve Sustainability:
The issue will be considered resolved when reliable timber and vegetation resource inventories are provided in all TSAs (phase 1) along with their associated statistical adjustments (phase 2).

Interim Targets, Milestones and Performance Measures:
Implement Okanagan phase 1 VRI in 2002 after receipt of the new air photography. Continue phase 2 in the Lillooet and Merritt TSAs during 2002. Reinstate the completion of the Kamloops Retrofit in 2002.

Relationship to Other Strategies or Issues:
VRI inventories have direct links to timber supply analysis, LRMP's and thus higher level plans, and to the non-timber resource strategies. These directly affect timber availability and other resource uses.

4.2.2.12 Water Quality

Template 2
Strategies to Address SSFM Issues

SSFM Issue: WQ	**Title: Water Quality**

Description of the Knowledge Strategy:

Collect and analyse water samples (new information) for a three-year period and gather existing information on hydrology, watershed geography, water use and activities affecting water quality.

Sources for the existing information includes the watershed assessment, 5-year development plan, range tenures and water license information. An assessment of water quality is made based on these uses and activities and water quality objectives are proposed based on the assessment, uses and activities.

SSFM Issue: WQ	**Title: Water Quality**

Status of Existing Knowledge:

BC Environment, Environment Canada and Health Canada have spent considerable effort in developing water quality guidelines. These define the safe levels of substances present in water that provide protection for a given water use that includes human consumption and aquatic life and are province-wide in their application. BC Guidelines have been developed for thirty substances (*British Columbia Approved Water Quality Guidelines (Criteria), 1999*). Water quality objectives apply the province-wide guidelines to specific watersheds and water uses. As such, development of objectives requires watershed-specific knowledge of existing water quality, water uses and activities that influence water quality. The BC Guidelines apply to raw water at the point of diversion from the natural stream while the federal Health and Welfare guidelines apply to water at the point of consumption.

There has been considerable research performed on impacts of logging, range and recreation on water quality. Much of the current information base has been presented in the USEPA publication: *Monitoring Guidelines to Evaluate Effects of Forestry Activities on Streams in the Pacific Northwest and Alaska, (MacDonald,1991).* The water quality knowledge strategy uses already known information on such things as which parameters are important for drinking water, known to be affected by forestry activities and applies this knowledge on a watershed-specific basis to assess water quality at the community water users' point of diversion and establish water quality objectives.

Describe the Required Knowledge-Building Activities in these Areas :

Resource Inventory: Assessment of the present state of water quality and the development of objectives requires three contiguous years of baseline monitoring to determine the range of existing conditions. Almost no monitoring has been done that reflects conditions at community water users' intakes resulting from activities on Crown lands. Previous monitoring has been done at locations further downstream in watersheds that reflect activities arising from urban, residential, industrial and agricultural developments. Concurrent with baseline water quality monitoring, information is collected on water use and present and future activities in the watershed that may affect water quality. There are community watersheds in all MU's of the TO Region, consequently the activity is needed in all MU's.

Organization, Synthesis, Analysis: Once the baseline water quality, water use and impact information has been collected, water quality is assessed for each parameter and compared to known provincial guidelines for given water uses. Based on the knowledge of existing conditions and potential impacts water quality objectives are established for the designated water use in the watershed.

Extension: Baseline water quality information can be used in a number of ways. Assessment of raw water quality provided to water purveyors can be helpful in determining treatment requirements and evaluating treatment outcomes. Information can be provided to WAP roundtable committees to structure harvesting activities that protects water quality. Water quality assessments and objectives can serve as targets for maintenance of high water quality standards, identification of development activities that may be adversely affecting water quality and long term targets for improvements where quality has been degraded.

Research: The knowledge strategy does not propose to conduct original research in the sense of experimentation aimed at discovery of new facts or revision of accepted theories. Rather, the strategy proposes to build a knowledge base of the status of water quality in community watersheds through the practical application of existing research.

Monitoring: Following collection of baseline data, assessing water quality and setting objectives the final step in the process is to monitor attainment of objectives. This is accomplished by targeting sample collection and analyzing for parameters of interest at those times when the baseline monitoring has shown that objectives are most likely to be exceeded.

SSFM Issue: WQ	**Title: Water Quality**

Define Performance Indicators, Targets & Milestones:

The global performance target is to accumulate three year baseline data sets and establish objectives in all community watersheds in the region where the residents either are reliant on the source and where forestry activity has already occurred or is planned for the watershed. According to the most recent listing, there are 112 designated community watershed in the Southern Interior Region. Of this number, baseline data collection has been completed or is on-going in 36 of these. Of the 76 remaining community watersheds there are 21 which have been identified where the residents are reliant on the source. These would be the ones considered high priority for commencement of base line data collection. Eighteen watersheds in the data base are not used for drinking water and water use is unknown in the remaining 37. In addition to community watersheds there are 10 non-designated watersheds which have been identified where residents have expressed concern over possible adverse effects from logging and where water quality monitoring has commenced. Finally, almost all of the water quality monitoring to date has been done in watersheds that have already been impacted by logging development. For proper interpretation of existing data and to determine the impact of forest activities on water quality it essential to have information from un-impacted watersheds. The performance targets would be to:

(a) complete sampling and establishment of objectives in all 36 designated community watersheds that have been started. Of these 36, 32 will be completed by March 31/02, leaving 4 to complete in 2002/03.

(b) complete sampling in the 10 non-community watersheds. Of these 3 will be completed by March 31/02 leaving 7 to complete in 2002/03.

(c) commence baseline monitoring in 2002/03 in 10 of the highest priority 21 designated community watersheds where the residents are reliant on the source. Priority would be determined by extent of timber resources present which may be accessed in the future.

(d) commence baseline monitoring in 3 watersheds where there has been no human activity.

It is possible to stage commencement of investments over time however, once a three year monitoring project has started it is essential to maintain the activity for a contiguous three year period. Once the three year data set is complete it is possible to defer preparation of the assessment and objectives report.

Describe Relationship to Other SSFM Knowledge Strategies:
Water quality is closely related to the water quantity (hydrometric) and stream temperature monitoring knowledge strategies.

Cross Reference to Management Unit Activities:

4.2.2.13 Water Yield

Template 2
Strategies to Address SSFM Issues

SSFM Sub-Issue: WY	**Title: Water Yield**

Strategy to Address the Issue:

Provide for a more sustainable water supply aimed at meeting these various demands. Reports from the United States have suggested that "optimum water yields can be obtained in snow country when approximately 40% of the watershed area is occupied by small, protected openings" (Leaf, 1974).

Anticipated outcomes:

1. An indication of the effect of forest management on water supply: The aim would is to conduct operational trials on a statistically significant number of small, high-elevation (snowpack dominated) watersheds in an effort to determine if small, protected openings can optimize water supply in the dry Southern Interior. Approximately sixteen (16) stations are required; eight as controls ("current forest management"), and eight watersheds where "modified forest management" will be conducted. These small, gauged watersheds should be "nested" within larger gauged watersheds for scaling of hydrologic response.

2. More hydrometric stations to better manage "natural" watersheds: One group of gauged watersheds will be established as a "baseline" from which trends in water supply can be measured. Another group of gauged watersheds will serve as an "adaptive management" experiment from which to determine if small, protected openings can indeed serve to optimize water supply. Additionally, as recommended by the Klohn-Crippen report on the *Southern Interior Hydrometric/Climate Network* (1997), associated climate stations should be installed to correlate climatic data with hydrologic response.

3. Potentially increasing available water supply: After three to five years, the inventory data of these operational field trials will be analysed to determine if overall water supply is "moving in the right direction" (ie: providing increased water supply). Trends in water supply for peak flows, total annual water yield, and base flows will be determined for both (i) "existing forest management practices", and (ii) "modified forest management practices". Three to five years of data should provide insight into "1 in 2" to "1 in 3" year events (drought and flood events). Maintaining four stations for an extended period (up to 20 years) will allow calibration of all watersheds for even more infrequent events (ie: "1 in 5", "1 in 10", or "1 in 20" year droughts).

Status of Existing Knowledge:

Organizational: Hydrometric data is currently gathered by Water Survey of Canada (WSC). The data is technically sound, and the data is readily available. However, water users and resource managers are not well organized to address land-water interaction issues in a consistent manner.

Extension: WSC data is currently available on the internet or CD-ROM.

Research: Younes Alilah (UBC) is currently developing a hydrologic model to predict stream flow response to forest practices in small watersheds. The data collected in this project could supplement his efforts, and may allow the calibration of this or other hydrologic models.

Resource Inventory: Of the hundreds of third-order (or smaller) "natural" watersheds in the Southern Interior, a mere 3 stations gauge watersheds of less than 15 km^2 (or less than 1% of the SIR landbase) have active hydrometric stations. Currently, FRBC provides funding for seven (7) WSC stations in the Southern Interior Region

Monitoring: WSC data is collected via active gauge monitoring.

Implementation: N/A

SSFM Sub-Issue: WY **Title: Water Yield**

Required Activities & Dependencies to Implement the Strategy:

Organizational: The organizational structure of utilizing WSC expertise would be maintained, for consistency of data collection. A "Regional Water Quality and Quantity Advisory Committee" (as adopted in Kootenay Region) could be assembled to help assess the findings of this operational trial. This committee should include representation from Local Health Authorities, MWLAP, MSRM, DFO, MOF, FRBC, industry, NGO's, relevant universities.

Extension: Following the gathering of sufficient data and results, a workshop may be appropriate to present findings to water users and land management practitioners. The Ministry of Sustainable Resource Management routinely provides analysis of available water discharge data, both at provincial and regional levels. As more information becomes available, MSRM can readily make these analyses available to resource managers (including Ministry of Forests), resource users (including forest licensees and water licensees), and the general public.

Research: SIFERP has identified several priority problem statements involving water quantity and water quality (namely statements #'s 7, 11, 15, 17, 18). This project specifically addresses priority problem #15 – addressing "which forest management practices will allow us to maintain water quality and manage water quantity – particularly for drier zones". Step 1 of this project is the gathering of water discharge data as a result of "modified forest management in small, snowpack dominated watersheds". This data set would be compared to "current forest management practices in small, snowpack dominated watersheds". After three to five years of data gathering, Step 2 could involve partnerships with appropriate researchers to analyze the data.

Resource Inventory: Coverage of the WSC hydrometric network is very limited – especially for small, unregulated watersheds on Provincial Forest lands. Data will be gathered according to the standards as set by WSC. Significant water supply areas for watersheds that are "fully utilizing" the existing water supply would be identified. To implement this strategy over 3-5 years, approximately 16 stations would be to provide good coverage for slope, aspect, elevation, biogeoclimatic representation, and watershed size. Water discharge data will be collected to analyze peak flows, total annual water yield, and base flows. In order to "calibrate" these watersheds for infrequent, extreme events (drought, flood), 4 stations should be run over a much longer time period – approximately 20 years. Additionally, maintain existing WSC stations at the mouths of these watersheds. A correlation can be determined in water supply from small, headwater sub-basins vs. water supply at the mouth of these systems.

Monitoring: Active monitoring of hydrometric stations.

Scheduling and Implementation: Determine if modified forest management practices have the potential to increase available water supply. Attributes to be closely examined would be; change in peak flows, change in total annual water yield, and change in base flows. After three to five years, the results of these operational field trials will be assessed to determine if overall water supply is "moving in the right direction" (ie: providing increased water supply).

SSFM Sub-Issue: WY | Title: Water Yield

Sustainability and Performance Indicators:

Conditions to Resolve Issue and Achieve Sustainability:

1. Establish approximately 8 hydrometric stations in small, snowpack dominated watersheds. These stations would provide baseline water supply data for watersheds managed according to "current practices.
2. Establish another 8 hydrometric stations for an operational trial of "modified forest management practices" in small, snowpack dominated watersheds.
3. Gather hydrometric data over 3 to 5 years to determine if there is a statistically significant difference in water supply between these two sets of watersheds.
4. Data collected would examine (a) changes in peak flows, (b) changes in total annual water yield, and (c) changes in base flows. Data analysis will determine the effect of "modified forest management practices" on water supply in dry ecosystems.

Monitoring:
This operational trial would involve active monitoring of hydrometric stations.

Interim Targets, Milestones and Performance Measures:

Year 1: Establish hydrometric stations for 16 small, snowpack dominated watersheds.
Eight would represent "current forest management practices", and the remaining eight would represent operational field trials for "modified forest management practices". Maintain existing WSC stations at the mouths of these watersheds. A correlation can be determined in water supply from small, headwater sub-basins vs. water supply at the mouth of these systems. These small, gauged watersheds should be "nested" within larger gauged watersheds for scaling of hydrologic response.

Years 2-5: Gather hydrometric data to determine trends in water supply.
Future: Research opportunities exist to analyze this data. Data gathered over a 3 to 5 year timeframe would provide approximately 80% confidence in the results of this trial. However, by extending the time horizon to 20 years for a subset of 4 stations will allow both (i) calibration of all watersheds for more extreme events, and (ii) supply a greater level of confidence (ie: >95%).

Relationship to Other Strategies or Issues: This project directly addresses SIFERP Priority Problem Statement #15 - addressing "which forest management practices will allow us to maintain water quality and manage water quantity – particularly for drier zones".

4.1.2.14 Wildlife & Wildlife Habitat

Template 2
Strategies to Address SSFM Issues

SSFM Issue: WL	**Title: Wildlife**

Strategy to Address the Issue:

The issue will be resolved through a combination of synthesis and analysis of existing wildlife and wildlife habitat information (i.e. habitat modelling, access planning) and the collection of new data (i.e. species inventory and assessments).

Provincial and regional standards (RIC) currently exist for the collection of new data. The Wildlife Inventory Strategy for Ungulate Game Species within the SIR defines inventory requirements and methodologies.

Status of Existing Knowledge:

Organisation, Synthesis and Analysis; The MoELP has developed tools and standards that are specifically designed for the collection and analysis of wildlife and wildlife habitat inventory data suitable for addressing knowledge gaps identified in Issue 1.
Inventory; Inventories for selected species have been conducted over areas of past (and possibly present) management concern. Some of the inventories are out of date or not of sufficient scope. Comprehensive analysis tools for the formation of predictive models of wildlife habitat have been developed for some species. However, crucial inventory gaps exist on the status and distribution of rare, endangered and regionally significant wildlife species and habitats
Extension ; Wildlife and wildlife habitat inventory and monitoring data is collected, analysed and prepared so that the results are available and applicable to wildlife managers, regional planners and the operational needs of forest licensees. Specifically, inventory data provides information that supports planning at the regional and landscape levels.
Research; Research activities related to wildlife and wildlife habitat within the region has focused on the creation and refinement of wildlife management techniques specific to threatened, endangered and economically important wildlife populations. There are a number of projects currently underway which involve inventory, monitoring and research.
Monitoring; Staff and funding shortages at the Provincial and Regional level have limited the monitoring of wildlife and wildlife habitat to a limited number of rare or threatened wildlife populations. Staff relies heavily on sightings databases and anecdotal evidence to aid in decision making.

Required Activities & Dependencies to Implement the Strategy:

Organisation, Synthesis and Analysis ; Inventory activities will be directed by regional wildlife biologists to insure that information is collected according to standard formats and from areas or populations where data gaps may hinder the decision making ability of wildlife managers, regional, local and operations planners.

Resource Inventory; To meet the key SSFM regional issues related to wildlife and wildlife habit knowledge gaps the following programs must either continue or be expanded throughout the Kamloops Forest Region:

- Inventory of populations of rare and endangered species of management concern (caribou, spotted owl, tailed frog, mountain beaver, Williamson sapsucker, and goshawks).
- Inventory of populations of economically important species of management concern goats, mule deer, elk, bighorn sheep, moose, white-tailed deer, and marten.

SSFM Issue: WL	**Title: Wildlife**

Extension; As with previous wildlife inventory data collected within the Region, results of wildlife and wildlife habitat information will be available for inclusion into regional, local and operation planning processes.

Research; The Ministry will continue to explore strategies and techniques that will increase the quality and quantity of inventory techniques. Research will continue to focus on developing management techniques that permit resource use to continue with minimal impact to wildlife. Current measures to protect wildlife and biodiversity will continue to be assessed, and new research and information incorporated.

Monitoring ; In order to meet the requirements and recommendations outlined in regional plans and Ministry strategic objectives, funding will be sought to increase the monitoring of selected wildlife and wildlife habitat. Over the long term, monitoring will be focused on collecting information to evaluate the effectiveness of management decisions, including hunting and land-use activities that were implemented to protect and/or conserve rare, threatened or economically important species identified in the Region.

Sustainability and Performance Indicators:

Addressing issues related to wildlife and wildlife habitat knowledge gaps within the Region will aid in fulfilling Higher Level Plans, TSRs, operational plan requirements, sustainable forest objectives, certification and non timber wildlife inventory strategies. The completion rates for this strategy are as follows:

- Complete inventory and monitoring tasks in key habitat locations for specified red and blue listed species (caribou, spotted owl, tailed frog, mountain beaver, Williamson sapsucker, and goshawks) and rare plants and plant communities by 2007
- 5 year inventory assessment completed for goats, mule deer, elk, bighorn sheep, moose and white-tailed deer, ongoing.
- Complete prioritisation of access management areas and complete 25% of plans by 2007
- By 2007 complete a representation assessment of OGMAs for the OSLRMP.
- By 2005 the optimum cover/forage requirement for the moderate snow zone would be determined by subzone variant, elevation and slope aspect for the OSLRMP.
- Providing for marten habitat in a managed forest for the OSLRMP.

Issues will be addressed on a priority basis, based on higher level plan direction and input from licenses, MOF and MoELP. Capacities will determine the timelines for delivering projects.

Relationship to Other Strategies or Issues:

Increased inventory of wildlife and wildlife habitat throughout the region is crucial for determining and designating Wildlife Habitat Areas associated with the Identified Wildlife Management Strategy. Increased knowledge of wildlife and wildlife habitat is required for implementation of the objectives of regional Higher Level Plans (LRMPs, LUPs) and the Wildlife Inventory Strategy for Ungulate Game Species within the Southern Interior Region.

Cross Reference to Management Unit Activities:

N/A

4.3 Summary of Investment Recommendations

In the preceding sections, the regional concerns have been provided in the Issue Statements (Template 1's) and the regional strategies to address those concerns have been provided in the Strategy Statements (Template 2's). However, within each management unit (TSA, TFL, or IFPA), the level of concern about an issue and the opportunities to fulfill a strategy will be slightly different.

As discussed in the Overview of Strategy Determination (sec 4.2.1) the activities being recommended to meet a strategy have been developed from the "bottom up". In other words, the stakeholders in each management unit have reviewed the issues and strategies and determined the most logical set of activities at a local level that provide a 'best fit' for resolving the combination of issues.

In this section, the recommended activities are provided for each management unit as locally determined. The priority 1 recommendations are limited to 90% of the funding target given by FRBC in the Ground Rules. The priority 2 recommendations are those in the range of 90% to 130% of that funding target. Any priority 3 recommendations are in excess of the 130% guideline. This format provides a relative priority for presenting recommendations.

A ranking of how well each project is meeting the strategic drivers (TSRs, NTRS & LRMPs) is also provided in this section. Each management is to provide rankings individualized to their local concerns. The maximum ranking is 40 points. It should be noted that because of other considerations a project not addressing the strategic drivers could still be placed into the priority 1 category for funding.

For each management unit, a written summary of how the unit is addressing the strategies is provided. A summary table (Template 4) is then provided that gives an overview of the recommendations. The details of each recommendation are then provided in the Activity Summary Tables (Template 3's) for the management unit. The tables are presented by management unit in the following order:

4.3.1 Kamloops MOF Region
4.3.2 Kamloops TSA
4.3.3 Lillooet TSA
4.3.4 Merritt TSA
4.3.5 Okanagan TSA
4.3.6 Interfor IFPA
4.3.7 Merritt IFPA
4.3.8 TFL 15 – Weyerhaeuser
4.3.9 TFL 18 – Slocan
4.3.10 TFL 33 – Federated
4.3.11 TFL 35 – Weyerhaeuser
4.3.12 TFL 49 – Riverside
4.3.13 Thompson Okanagan Summary

4.3.1 Kamloops MOF Region

Management Unit Approach to Regional Strategies
Management Unit: Kamloops Forest Region

Code	Title	MU Concerns, Approach and Direction to Meet Regional Strategies
	M.U. Overview	Any recommendations that can be associated with a specific management unit should be provided there. However, there are several recommendations that are not specific to a management unit and are logically delivered through the regional MOF office.
CH	Cultural Heritage	As per the strategies, there is a need to investigate area based CH inventories. This should be done as a pilot project pending process development.
FFH	Fish & Fish Habitat	All recommendations are specific to a management unit.
FH	Forest Health	Annual overview flights for the regional "forest health assessment" cover all MUs and are most effectively covered through regional delivery.
GY**	Growth & Yield	Remeasurement of PSP's is an on-going high priority, not specific to a MU and is best delivered through the regional MOF office.
IT	Inventory Tools	All recommendations are currently specific to a management unit. However, an annual air photography schedule should be developed for all MUs and co-ordinated through the region for cost effectiveness.
RP	Resource Planning	All recommendations are specific to a management unit.
ST	Stream Temperature	All recommendations are specific to a management unit.
TEM	Terrestrial Ecosystems	Continuation of the Biogeoclimatic Ecological Classifications is very important regionally for most aspects of resource planning and operations. This project is expected to be completed in a couple of years.
TSM	Terrain Stability	All recommendations are specific to a management unit.
VA	Visual Aesthetics	All recommendations are specific to a management unit.
VRI	Vegetation Inventories	All recommendations are specific to a management unit.
WQ	Water Quality	All recommendations are specific to a management unit.
WY	Water Yield	All recommendations are specific to a management unit.
WWH	Wildlife	All recommendations are specific to a management unit.

** NOTE: - All the previous years RMPs have identified the need to annually adjust the regional allocation for PSP remeasurement based on the number of PSP to do in the coming year. To date this has not been done and the coning season has the maximum number of PSPs to remeasure in the ten year cycle. There is no room to adjust other regional priority 1 recommendations so the regional table will exceed the 90% guideline to show this urgent need.

Kamloops Region

SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity				Benefits							Investment Recommendations						
Unit	SSFM Activity	TITLE	Location / Description	Priority OR Lead	Ranked Score (a)	Type (b)	Status (c)	Plan (d)	Scope (e)	End Date (f)	Funding (g)	Previous Invest 2001/02	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	Five Year Total 2002/07
		Priority 1**																
R	FH 1	FH Overview Flight	Region	1	20	U	E	T,L	MU	2007+	frbc	$80,000	$70,000	$80,000	$80,000	$80,000	$80,000	$390,000
R	GY 1	GY PSP Remeasurements	Region	1	31	U	E	T,N,L	P	2007+	frbc	$138,000	$230,000	$38,000	$106,000	$8,500	$155,000	$537,500
R	TEM 1	BEC Revisions	Region	1	40	N	E	T,N,L	R	2003	frbc	$183,000	$160,000	$205,000	$80,000	$0	$0	$445,000
												SubT	$460,000	$323,000	$266,000	$88,500	$235,000	$1,372,500
		Priority 2																
R	TEM 1	BEC Revision Top-Up	Region	2	40	N	E	T,N,L	R	2003	frbc	$0	$45,000	$0	$0	$0	$0	$45,000
R	CH 1	CH Pilot Inventory	Region	2	NA	N	N	T,N,L	P	2005	frbc	$0	$25,000	$50,000	$100,000	$25,000	$0	$200,000
												SubT	$70,000	$50,000	$100,000	$25,000	$0	$245,000
		Priority 3																
R	GY 2	GY PSP Establishment	Region	3	18	U	N	T,N,L	P	2007+	frbc	$0	$0	$30,000	$30,000	$60,000	$0	$120,000
R	GY 3	GY Monitoring	Region	3	16	U	N	T,N,L	MU	2003	frbc	$0	$25,000	$125,000	$125,000	$125,000	$125,000	$525,000
R	GY 4	Op Adjust Factors	Region	3	22	U	N	T,N,L	MU	2003	frbc	$0	$25,000	$150,000	$150,000	$0	$0	$325,000
R	GY 5	SIBEC	Region	3	31	U	N	T,N,L	R	2007	frbc	$0	$27,500	$27,500	$27,500	$27,500	$27,500	$137,500
												SubT	$77,500	$332,500	$332,500	$212,500	$152,500	$1,107,500
													$582,500	$655,500	$598,500	$301,000	$387,500	$2,525,000

(a) Ranked Score - Enter the total of the TSR, NTRS, LRMP RIC, Timing from Box 12's on template 3

(b) Type - E = (Organizational) U = (Tools, Applications, Extension) N = (inventories or research)

(c) & (d) Status - N = new, E = Existing .... Plan - T = TSR, N = NTRS, L = LRMP (or specify)

(e) Scope - P = Province, R = Region, MU = Management, L = Licensee

(f) End Date - For multi-year activities, enter the year to be completed.

(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

** **See Note on Previous Page**

4.3.2 Kamloops TSA

Management Unit Approach to Regional Strategies

Management Unit: Kamloops TSA

Code	Title	MU Concerns, Approach and Direction to Meet Regional Strategies
	M.U. Overview	
CH	Cultural Heritage	Resource use conflicts and costly delays are being experienced due to insufficient identification and assessment of historic & pre-historic sites, trails and areas of archaeological significance. Continue cultural heritage inventories and assessments initiated by bands, tribal councils and historic societies while investigating methods of delivering area based heritage inventories.
FFH	Fish & Fish Habitat	Accurate inventory information which addresses the composition and distribution of fish and fish habitat within the Kamloops TSA is required to aid in the ongoing management of aquatic resources and to facilitate the development of long-term operational and management level forestry and resource activities. Knowledge gaps currently exist which when addressed will provide insight into the present status and sustainability of fish populations throughout the Kamloops TSA.
FH	Forest Health	Annually, conditions affecting the health of second growth forests change and those changes may result in significant losses due to mortality, growth loss, value reduction and volume declines in second growth forests. The object is to reduce mortality, growth loss, value reduction and volume declines in second growth forests through a program of monitoring changing health conditions and assessing methods to improve the health, vigour and productivity of the forest land base.
GY	Growth & Yield	There is a high degree of uncertainty regarding the productivity and stand development of second growth, and complex uneven aged stands, which is reducing the reliability of forest growth predictions and future yield estimates. Maintain existing growth and yield investments and concentrate future FRBC investments into improving the certainty around predicting stand development and productivity of second growth and complex stands.
IT	Inventory Tools	Inefficiencies in delivery of SSFM are resulting due to proper tools, which are common to many recommendations, being unavailable in a timely manner to properly meet scheduling needs. Provide currently accessible Inventory Tools needed for a variety of SSFM issues in a timely manner consistent with schedules completed for resolving SSFM Issues.
RP	Resource Planning	The implementation of FRBC funded resource planning to address sustainability lacks co-ordination and is not always targeted towards the resource priorities and needs. Assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR.
ST	Stream Temperature	There is no objective procedure to manage for stream temperature in forestry operating areas for the protection of aquatic life and human consumption. Naturally high stream temperatures are a concern for salmonoid fish species and other aquatic organisms. Temperature sensitive streams will result in new complexity and unique riparian forestry management issues around S4, S5 and S6 streams.

Code	Title	MU Concerns, Approach and Direction to Meet Regional Strategies
TEM	Terrestrial Ecosystems	Resource planning concerns and strategic management decisions remain unresolved due to incomplete classification and interpretation of the biological and environmental conditions of terrestrial ecosystems. Throughout the TSA, provide the detailed biophysical attributes of the land base for use in strategic planning and resource management decisions.
TSM	Terrain Stability	Insufficient information exists on identifying unstable and potentially unstable terrain to allow reliable forest management decisions and strategic planning throughout the region. Complete the identification and mapping of unstable or potentially unstable terrain throughout the TSA to provide reliable information for the strategic planning of all resource uses.
VA	Visual Aesthetics	Many of areas with VQO's and visual inventories completed are not up to RIC standards. There are still lakes that need to be inventoried. The result is a high degree of uncertainty in the strategic planning, timber supply analysis and forest management processes. Complete outstanding Visual Landscape inventories and VQO assessments within the Kamloops TSA and ensure previously completed inventories and assessments are reliable for use in the strategic planning processes.
VRI	Vegetation Inventories	Sustainability, strategic planning and adequate ecosystem management cannot be achieved in some parts of the region, due to a lack of reliable information on the timber and vegetation resources. To achieve sustainability, provide reliable information and mapping of the timber vegetation resources throughout the Kamloops TSA.
WQ	Water Quality	There is a lack of knowledge of the specific impacts of timber harvesting and activities such as range and recreation that follow timber harvesting on the quality of water for human consumption in community and domestic watersheds. Traditionally, water quality monitoring has been focussed on activities other than forestry conducted on privately owned lands mostly downstream of community intakes. This issue addresses lack of knowledge of impacts of logging and associated activities conducted on Crown Lands on drinking water quality.
WY	Water Yield	In many biogeoclimatic areas within the dry Interior, there are a number of watersheds where there is often not enough water supply to meet the various demands. These demands include; agricultural water use, industrial water use, domestic and municipal water use, and in-stream fisheries and aquatic ecosystem requirements.
WWH	Wildlife	There is a lack of inventory information on the abundance, composition, distribution and trends for many species of wildlife and their habitats in the Kamloops TSA. The response of wildlife populations to hunting strategies, access creation, and habitat alteration or loss needs to be investigated, monitored, documented and mitigated. This information will provide insight into the current status and sustainability of many species and habitats throughout the TSA. Addressing these knowledge gaps will also facilitate the implementation of higher level and regional plans as well as the management of timber and non-timber resource development plans.

Kamloops TSA - Priority 1
SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity				**Benefits**							**Investment Recommendations**						
Unit	**SSFM Activity #**	**TITLE**	**Location / Description**	**Priority OR Lead**	**Ranked Score (a)**	**Type (b)**	**Status (c)**	**Plan (d)**	**Scope (e)**	**End Date (f)**	**Funding (g)**	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
	Priority 1																	
K	CH 1	AOAs	AOA model	T	NA	N	E	T,N,L	MU	2002	frbc	$40,000	$40,000	$0	$0	$0	$0	$40,000
K	CH 2	AOAs	AOA model	W	NA	N	E	T,N,L	MU	2003	frbc	$15,000	$15,000	$15,000	$0	$0	$0	$30,000
K	FFH 1	Fish Inventory	TumTum/Mud	W	32	N	E	T,N,L	L	2002	frbc	$40,000	$64,800	$0	$0	$0	$0	$64,800
K	FFH 2	Fish Studies	FHAT	W	33	U	E	N	L	2004	frbc	$25,000	$25,000	$25,000	$25,000	$25,000	$25,000	$125,000
K	FFH 3	Fish Studies	Pop/dist	W	28	N	N	T,N,L	L	2006	frbc	$0	$40,000	$40,000	$40,000	$40,000	$40,000	$200,000
K	FFH 4	Fish Inventory	Adams Lake	In	32	N	E	T,N,L	L	2002	frbc	$40,000	$75,000	$0	$0	$0	$0	$75,000
K	FFH 10	Fish Inventory	Brookfield Crk	S	26	N	N	T,N,L	L	2005	frbc	$0	$90,000	$90,000	$90,000	$0	$0	$270,000
K	GY 1	PSP Remeasure	Monitoring	W	24	N	E	T,L	R	2002	frbc	$20,000	$100,000	$0	$0	$0	$0	$100,000
K	GY 2	Inventory review	ESSF Zone	In	28	N	N	T,L	MU	2002	frbc	$0	$75,000	$0	$0	$0	$0	$75,000
K	IT 1	Ortho Photo Update	Slocan Op Area	S	27	U	E	T	L	2002	frbc	$30,000	$30,000	$0	$0	$0	$0	$30,000
K	IT 2	Ikonos satellite imagery	Adams Lake	IN	26	U	E	T,N,L	L	2004	frbc	$28,000	$50,000	$25,000	$25,000	$0	$0	$100,000
K	RP 1	Landscape Units	OGMA	S	19	N	E	T,N,L	MU	2004	frbc	$100,000	$50,000	$50,000	$50,000	$0	$0	$150,000
K	RP 2	Landscape Units	OGMA	T	19	N	E	T,N,L	MU	2002	frbc	$150,000	$250,000	$0	$0	$0	$0	$250,000
K	RP 3	LRUP	Greenstone	Ai	24	N	E	T,N,L	MU	2002	frbc	$36,000	$36,000	$0	$0	$0	$0	$36,000
K	RP 4	Road Netdowns	TSA	In	29	N	E	T,N,L	MU	2002	frbc	$30,000	$80,000	$0	$0	$0	$0	$80,000
K	TEM 1	BEC	Lloyds BEC	R	34	N	E	T,N,L	MU	2002	frbc	$65,200	$60,000	$0	$0	$0	$0	$60,000
K	TEM 2	TELSA Pilot	Klenner	In	33	U	E	T,N,L	MU	2004	frbc	$20,000	$30,000	$25,000	$25,000	$0	$0	$80,000
K	VA 1	Visuals Assessment	Hiways/Lakes	W	38	N	E	T,L	L	2003	frbc	$10,000	$10,000	$10,000	$0	$0	$0	$20,000
K	VA 2	Visuals on Small Lakes	Lakes	T	36	N	E	T,L	L	2004	frbc	$11,020	$22,000	$22,000	$22,000	$0	$0	$66,000
K	VRI 1	Phase 2 Samples	TSA	Ai	27	N	E	T,L	MU	2003	frbc	$41,000	$60,000	$60,000	$0	$0	$0	$120,000
K	VRI 2	Phase 2 Samples	TSA	In	27	N	E	T,L	MU	2003	frbc	$25,000	$50,000	$50,000	$0	$0	$0	$100,000
K	WQ 1	Baseline Water Quality	Avola Crk	W	28	N	N	N,L	L	2004	frbc	$0	$17,500	$17,500	$7,800	$0	$0	$42,800
K	WQ 2	Hydrometric Station	Adams Riv	In	28	N	E	N,L	L	2005	frbc	$10,000	$9,200	$9,200	$9,200	$9,200	$0	$36,800
K	WQ 3	Hydrometric Station	Lemieux	T	28	N	E	N,L	L	2005	frbc	$10,800	$9,300	$9,300	$9,300	$9,300	$0	$37,200
K	WQ 4	Hydrometric Station	Arrow/Cache	Ai	25	N	E	N,L	L	2005	frbc	$16,000	$16,000	$16,000	$16,000	$16,000	$0	$64,000
K	WQ 5	Baseline Water Quality	Tranq/Pet/Paul	W	30	N	E	N,L	L	2002	frbc	$48,000	$43,160	$44,500	$44,500	$44,500	$44,500	$221,160
K	WQ 6	Baseline Water Quality?	Adams Lake	In	28	N	N	N,L	L	2006	frbc	$0	$25,000	$25,000	$25,000	$25,000	$25,000	$125,000
K	WQ 7	Snow Hydrology	Taweel	T	29	N	E	N,L	MU	2003	frbc	$40,000	$25,000	$25,000	$0	$0	$0	$50,000
K	WQ 8	Baseline Water Quality?	Heller	W	30	N	E	N,L	L	2003	frbc	$17,500	$17,500	$17,500	$0	$0	$0	$35,000
K	WQ 9	Hydrometric Station	Criss creek	w	28	N	E	N,L	L	2002	frbc	$12,000	$10,000	$10,000	$10,000	$10,000	$10,000	$50,000
K	WQ 10	Baseline Water Quality?	East Blackpool	W	30	N	E	N,L	L	2002	frbc	$12,000	$8,000	$0		$0	$0	$8,000
K	WWH 1	Wildlife Inventory	Caribou	T,W	33	N	E	T,N,L	MU	2003	frbc	$143,000	$105,000	$120,000	$120,000	$85,000	$100,000	$530,000
K	WWH 2	Wildlife Inventory	Skull Mtn	T	26	N	E	T,N,L	L	2002	frbc	$90,000	$90,000	$0	$0	$0	$0	$90,000
												SubT	$1,628,460	$706,000	$518,800	$264,000	$244,500	$3,361,760

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(c) & (d) Status - N = new, E = Existing …. Plan - T = TSR, N = NTRS, L = LRMP (or specify)
(e) Scope - P = Province, R = Region, MU = Management, L = Licensee
(f) End Date - For multi-year activities, enter the year to be completed.
(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

Kamloops TSA - Priority 2

SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity				**Benefits**							**Investment Recommendations**						
Unit	**SSFM Activity #**	**TITLE**	**Location / Description**	Priority OR Lead	**Ranked Score** (a)	**Type** (b)	**Status** (c)	**Plan** (d)	**Scope** (e)	**End Date** (f)	**Funding** (g)	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
		Priority 2																
K	FFH 5	Species & Population	Rbt in Cwtr Riv	2	25	N	N	T,N,L	MU	2002	frbc	$0	$40,000	$0	$0	$0	$0	$40,000
K	FFH 6	Species & Population	Bull Trout NT	2	25	N	N	T,N,L	MU	2003	frbc	$0	$120,000	$100,000	$0	$0	$0	$220,000
K	FFH 7	Species & Population	Kokanee in TSA	2	25	N	N	T,N,L	MU	2004	frbc	$0	$50,000	$50,000	$50,000	$0	$0	$150,000
K	FFH 8	Species & Population	Steelhead	2	25	N	N	N,L	MU	2004	frbc	$0	$30,000	$30,000	$30,000	$0	$0	$90,000
K	FFH 9	Species & Population	RBt Barrier R	2	25	N	N	T,N,L	MU	2003	frbc	$0	$50,000	$50,000	$0	$0	$0	$100,000
K	TSM 1	Level D	?	2	29	N	N	T,N,L	MU	2003	frbc	$0	$27,870	$27,870	$0	$0	$0	$55,740
K	WQ 11	Baseline Water Quality	Skowootum crk	2	28	N	N	N,L	MU	2006	frbc	$0	$17,500	$12,000	$12,000	$12,000	$12,000	$65,500
K	WQ 12	CW Data Base	TSA	2	31	U	N	T,N,L	MU	2002	frbc	$0	$10,000	$0	$0	$0	$0	$10,000
K	WWH 3	Rare and Endangered	Goshawk Nests	2	21	N	N	T,N,L	MU	2006	frbc	$0	$7,000	$7,000	$7,000	$7,000	$7,000	$35,000
K	WWH 4	Rare and Endangered	Badgers	2	26	N	E	T,N,L	MU	2002	frbc	$2,500	$25,000	$0	$0	$0	$0	$25,000
K	WWH 5	Reg. Important Inventory	Sheep	2	23	N	N	N,L	MU	2005	frbc	$0	$5,000	$0	$0	$5,000	$0	$10,000
K	WWH 6	Reg. Important Inventory	Goats	2	25	N	N	N,L	MU	2006	frbc	$0	$0	$50,000	$0	$0	$50,000	$100,000
K	WY 1	Water Supply - Kam	Various Crks	2	30	N	N	N,L	MU	2006	frbc	$0	$120,000	$100,000	$100,000	$100,000	$100,000	$520,000
												SubT	$502,370	$426,870	$199,000	$124,000	$169,000	$1,421,240
												Total	$2,130,830	$1,132,870	$717,800	$388,000	$413,500	$4,783,000

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(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

4.3.3 Lillooet TSA

Management Unit Approach to Regional Strategies

Management Unit: Lillooet TSA

Code	Title	MU Concerns, Approach and Direction to Meet Regional Strategies
	M.U. Overview	Reduced funding for the Lillooet TSA has resulted in significant funding pressures being placed on identified inventory projects. The approach taken by the Lillooet MU to address these funding pressures is to complete on going projects prior to initiating any new projects. The SSFM 5 year plan provides and indication of when new projects may be scheduled to start plus also identifies projects that have been requested but will not likely start during the 5 year term of this plan. The scheduling of new projects will be reviewed annually as priorities may change. Template 4 identifies projects as priority 1, 2, 3 and 4. Priority 1 and 2 projects have been scheduled annually up to 130% of the MU's allocation. Priority 3 projects are also scheduled when money becomes available (i.e., due to the completion of existing projects). Priority 3 projects are scheduled annually up to the projected 130% funding level (assuming current funding level is maintained each year for the life of the plan). Priority 4 projects have been identified to reflect a need in the MU however they have not been scheduled due to lack of funding and or priority.
CH	Cultural Heritage	The MU will maintain projects in this interest area however at a lower level that reflects reduced funding. The ongoing trails mapping project is scheduled to continue however new projects such as AIA's and AIS's have been recognized as needs but have not been scheduled to start during the 5 year term of this plan.
FFH	Fish & Fish Habitat	This interest area is recognized as a high priority for the MU. The plan commits to funding on going projects with new projects being scheduled to start during the plan
FH	Forest Health	No MU specific issues were identified. Regional projects involving this TSA are sufficient
GY	Growth & Yield	No MU specific issues were identified. Regional projects involving this TSA are sufficient
IT	Inventory Tools	Aerial photos – currently listed as priority 4 and are unfunded due to current uncertainty over their priority ranking and whether or not other cheaper products can be used instead – more information is required.
RP	Resource Planning	Identified projects are currently listed as priority 4 and are unscheduled during the 5 year term of this plan. Currently considered lower priority projects.
ST	Stream Temperature	Although important, this issue will have to wait to be addressed due to priorities for addressing other issues.
TEM	Terrestrial Ecosystems	Maintain recommended funding level in order to complete the PEM project in the TSA by 2004. It is recognized as a high priority project that will significantly contribute to TSR, Non Timber Resources and LRMP concerns.
TSM	Terrain Stability	Completed in the MU
VA	Visual Aesthetics	Unable to fund initiated projects in 2003/03 however ongoing projects will resume in 2003/04. It is anticipated that the one year gap will not jeopardised work completed to date. Additional projects are scheduled to start with in the 5 year planning period
VRI	Vegetation Inventories	The existing sampling project has been identified as a priority 1 project and is scheduled to be completed in 2002/03 as it is required to meet TSR needs. The new NVAF project is listed as priority 4 and is currently unscheduled

Code	Title	MU Concerns, Approach and Direction to Meet Regional Strategies
WQ	Water Quality	Water quality is recognised as a significant MU issue. Two ongoing projects are listed as priority 2 and two new projects scheduled to be completed during the 5 year period of the plan
WY	Water Yield	Identified as priority 4 and is unscheduled for the 5 year period of the plan
WWH	Wildlife	Spotted owl inventory remains a funded ongoing project due to it significance to TSR, Non Timber Resources and LRMP. Priority 3 has been given to two additional projects with species listed as rare and endangered. The remaining projects are classified as priority 4 and are not scheduled to start during the 5 year period of this plan.

Lillooet TSA - Template 4
SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity				**Benefits**							**Investment Recommendations**						
Unit	**SSFM Activity #**	**TITLE**	**Location / Description**	Priority OR Lead	**Ranked Score** (a)	**Type** (b)	**Status** (c)	**Plan** (d)	**Scope** (e)	**End Date** (f)	**Funding** (g)	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
		Priority 1																
L	FFH 1	Fish Habitat &Recon	Dist	1	28	N	E	TNL	MU	2005-06	frbc	$200,000	$170,000	$180,000	$180,000	$180,000	$0	$710,000
L	TEM 1	PEM	1/3 TSA	1	24	N	E	TNL	MU	2003-04	frbc	$100,000	$100,000	$100,000	$0	$0	$0	$200,000
L	VRI 1	Phase 2 Samples	to complete	1	29	N	E	TNL	MU	2002-03	frbc	$75,000	$75,000	$0	$0	$0	$0	$75,000
												SubT	$345,000	$280,000	$180,000	$180,000	$0	$985,000
		Priority 2																
L	CH 1	Arch. Trails Inventory	Dist	2	N/A	N	E	TNL	MU	2007+	frbc	$100,000	$36,500	$50,000	$50,000	$50,000	$50,000	$236,500
L	WQQ 1	Baseline Water Quality	Siska/Mohocan	2	26	N	E	NL	MU	2002-03	frbc	$92,424	$14,000	$0	$0	$0	$0	$14,000
L	WQQ 3	Baseline Water Quality	Intlpam	2	26	N	E	NL	MU	2003-04	frbc	$17,500	$17,500	$17,500	$0	$0	$0	$35,000
L	WWH 1	Wildlife Inventory	Spotted Owl	2	28	N	E	TNL	MU	2006-07	frbc	$55,000	$55,000	$55,000	$55,000	$40,000	$10,000	$215,000
												SubT	$123,000	$122,500	$105,000	$90,000	$60,000	$500,500
												Cumulative	$468,000	$402,500	$285,000	$270,000	$60,000	$1,485,500
		Priority 3																
L	FFH 1	Fish Habitat &Recon	Additional needs	3	28	N	E	TNL	MU	2004-05	frbc	$0	$0	$0	$100,000	$0	$0	$100,000
L	FFH 2	Fish Studies	modeling	3	25	E	N	NL	MU	2007+	frbc	$0	$0	$0	$0	$0	$40,000	$40,000
L	FFH 3	Bull Trout Populations	dist	3	22	N	N	TNL	MU	2007+	frbc	$0	$0	$0	$0	$150,000	$150,000	$300,000
L	VA 1	Lakes Classification	dist	3	20	N	E	TNL	MU	2005-06	frbc	$20,000	$0	$50,000	$50,000	$30,000	$0	$130,000
L	VA 2	Lakes VQOs	Large Lakes	3	22	N	E	TNL	MU	2007+	frbc	$20,000	$0	$0	$0	$0	$23,000	$23,000
L	VA 3	Views from Communities	dist	3	18	N	N	TL	MU	2004-05	frbc	$0	$0	$0	$10,000	$0	$0	$10,000
L	VA 4	Visual Inventory Update	dist	3	17	N	N	TL	MU	2007+	frbc	$0	$0	$0	$0	$0	$14,000	$14,000
L	WQQ 2	Baseline Water Quality	Siska/Mohocan	3	21	N	N	NL	MU	2003-04	frbc	$0	$0	$14,000	$0	$0	$0	$14,000
L	WQQ 4	Baseline Water Quality	Lytton	3	21	N	N	NL	MU	2006-07	frbc	$0	$0	$0	$17,500	$17,500	$17,500	$52,500
L	WWH 2	Rare and Endangered	Tailed Frog	3	23	N	N	NL	MU	2007+	frbc	$0	$0	$0	$0	$0	$25,000	$25,000
L	WWH 3	Wildlife Inventory	Goats	3	22	N	N	TNL	MU	2007+	frbc	$0	$0	$0	$0	$0	$50,000	$50,000
												SubT	$0	$64,000	$177,500	$197,500	$319,500	$758,500
												Cumulative	$468,000	$466,500	$462,500	$467,500	$379,500	$2,244,000

Priority 1,2,3

$679,924 $468,000 $466,500 $462,500 $467,500 $379,500 $2,244,000

(a) Ranked Score - Enter the total of the TSR, NTRS, LRMP RIC, Timing from Box 12's on template 3

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(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

Lillooet TSA - Template 4

SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity					**Benefits**						**Investment Recommendations**						
Unit	**SSFM Activity #**	**TITLE**	**Location / Description**	Priority OR Lead	**Ranked Score** (a)	**Type** (b)	**Status** (c)	**Plan** (d)	**Scope** (e)	**End Date** (f)	**Funding** (g)	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
		Additional Needs																
		Priority 4**																
L	CH 2	AISs in TSA	FN request	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$185,000
L	CH 3	AIAs	rec sites/trails	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$32,000
L	IT 1	Aerial Photography	TSA	4	N/A	U	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$194,450
L	RP 1	Spatial Planning	modeling	4	N/A	U	N	TL	L	?	S	$0	$0	$0	$0	$0	$0	$235,000
L	RP 2	Harvest Systems	Dry Belt Fir	4	N/A	U	N	TL	L	?	S	$0	$0	$0	$0	$0	$0	$185,000
L	RP 3	Spatial Planning	Op Area	4	N/A	U	N	TL	L	?	S	$0	$0	$0	$0	$0	$0	$225,000
L	VRI 2	Phase 2 Samples	NVAFs	4	N/A	N	N	T	MU	?	frbc	$0	$0	$0	$0	$0	$0	$75,000
L	WWH 4	Rare and Endangered	Mtn. Beaver	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$80,000
L	WWH 5	Rare and Endangered	Goshawk nest	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$31,000
L	WWH 6	Wildlife Inventory	Shulaps Sheep	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$10,000
L	WWH 7	Wildlife Inventory	Spences B Sheep	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$10,000
L	WWH 8	Wildlife Inventory	Fraser Sheep	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$50,000
L	WWH 9	Wildlife Inventory	Lytton Elk	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$10,000
L	WWH 10	Wildlife Inventory	Moose (1)	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$45,000
L	WWH 11	Wildlife Inventory	Mule Deer (3)	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$60,000
L	WWH 12	Access Planning	TSA	4	N/A	N	N	TNL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$76,000
L	WY 1	Water Supply	At risk	4	N/A	N	N	NL	MU	?	frbc	$0	$0	$0	$0	$0	$0	$30,000
												SubT	$0	$0	$0	$0	$0	$1,533,450
												$0	$0	$0	$0	$0	$0	$1,533,450

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** Note: Template 3's not generally prepared for priority 4s.

4.3.4 Merritt TSA

Management Unit Approach to Regional Strategies

Management Unit: Merritt TSA

Code	Title	MU Concerns, Approach and Direction to Meet Regional Strategies
	M.U. Overview	Inventories and data collection remains a high priority for the Merritt TSA.
CH	Cultural Heritage	Significant AIS work is identified. Generally there is more work that needs to be undertaken than there is funding.
FFH	Fish & Fish Habitat	The need for fish inventory information and modeling to improve predictions for TSR and support LRMP continues to be high. This information will be used to build a fish presence or absence model to generate stream classification by the IFPA. This model will be updated each year with the latest survey information.
FH	Forest Health	Forest health issues continue to drive the forest management of the TSA. The age of the Lodgepole pine and the quantity of mature Pine will perpetuate the issue for many years into the future. The NSIFPA will look at the stability of the standing inventory.
GY	Growth & Yield	Present and future forest and land management decisions rely on having good information on the quantity, and quality and composition of our forests. One very important aspect that needs to be better developed is that of productivity of managed stands. The NSIFPA is developing this information for the Merritt TSA.
IT	Inventory Tools	The inventory tools for the Merritt TSA are fairly recent and up to date. In 2000 we acquired a new flight of 1:20,000 aerial photos, and a 5 M resolution Indian satellite to update our inventory. Both products are working very well..
RP	Resource Planning	OGMA identification and field verification is an important priority Biodiversity commitment that needs to be identified and ground inspected. Patch size work needs further work and coarse woody debris work is greatly needed.
ST	Stream Temperature	Temperature Sensitive streams is an issue which has been on-going in the TSA for a number of years. The data that is being provided from the large number of data loggers in the various waterways will help to better define the extent of the issue and provide direction for the management of this important resource.
TEM	Terrestrial Ecosystems	The TSA has been mapped by the PEM process by NSIFPA and is expected to be a fully functional Inventory by the end of this fiscal year.
TSM	Terrain Stability	Approx. 50 % of the TSA has been mapped with a mix of DTSM, and RTSM Rated n/a, C, C for level E, RTSM and DTSM respectively. Minor amount of TSM are proposed for 2002-2003.
VA	Visual Aesthetics	A visual recreation plan has been designed for the whole TSA in order to provide better products to the TSR's and to meet the needs of a future plans. Each year a few of the projects on this list are accomplished, but much more is still required to meet the needs of the TSR processes.
VRI	Vegetation Inventories	Phase 2 VRI plots have been completed by the IFPA. The state of the inventory in Merritt is considered fairly modern and reasonably accurate as confirmed by the Inventory audit.
WQ	Water Quality	Water quality information is generally lacking for the Merritt TSA. Water quality assessments can provide a yardstick to measure the impacts of development to ensure that water quality remains one of our most important objectives.
WY	Water Yield	In the dry southern interior, water is generally a very important resource. There are frequently more demands for water than there is available water. There is

Code	Title	MU Concerns, Approach and Direction to Meet Regional Strategies
		abundant historical information on quantity of water but generally this information has not been collated and published. Recent trends indicate that water quantity monitoring stations are becoming fewer. Much more information is required in order to monitor land use activities.
WWH	Wildlife	Wildlife inventories continue to be an important aspect of the information gathering in the Merritt TSA. Inventories of wildlife and wildlife habitat are required to ensure protection of rare and endangered. or economically important wildlife and wildlife habitat

Merritt TSA - Priority 1

SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity				**Benefits**							**Investment Recommendations**						
Unit	**SSFM Activity #**	**TITLE**	**Location / Description**	Priority OR Lead	**Ranked Score** (a)	**Type** (b)	**Status** (c)	**Plan** (d)	**Scope** (e)	**End Date** (f)	**Funding** (g)	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
		Priority 1																
M	CH 1	Consolidated AISs	TA,USIB,LSIB, UN	1W	30	N	E	T,N,L	MU	2007	frbc	$160,000	$180,000	$210,000	$190,000	$180,000	$180,000	$940,000
M	CH 3	AISs - Jim Kelly Crk	Operating	1T		N	E	T,N,L	L	2005	frbc	$50,000	$50,000	$50,000	$50,000	$50,000	$0	$200,000
M	CH 4	AIS's for UNIB Trails	Operating Area	1Ar		N	E	T,N,L	L	2005	frbc	$12,750	$17,500	$17,500	$17,500	$17,500	$0	$70,000
M	FFH 1	Fish Studies	FHAT 20	1As		U	E	T,N,L	L	2003	frbc	$160,000	$12,470	$12,470	$0	$0	$0	$24,940
M	FFH 2	Fish Habitat &Recon	1:20,000	1T		N	E	T,N,L	L	2005	frbc	$100,000	$40,000	$40,000	$40,000	$20,000	$0	$140,000
M	FFH 3	Specie specific inventory	Upper Nicola	1Ar		N	N	T,N,L	MU	2004	frbc	$0	$5,000	$5,000	$5,000	$0	$0	$15,000
M	FFH 4	Fish Habitat &Recon	Upper Similk	1W	29	N	E	T,N,L	MU	2002	frbc	$80,000	$135,000	$0	$0	$0	$0	$135,000
M	FFH 6	FHAT Modeling	FHAT 20	1T		U	E	T,N,L	L	2005	frbc	$20,000	$20,000	$20,000	$15,000	$15,000	$0	$70,000
M	FFH 7	FHAT Modeling	FHAT 20	1W	33	U	E	T,N,L	L	2004	frbc	$20,000	$10,000	$40,000	$40,000	$0	$0	$90,000
M	FFH 8	Fish Habitat &Recon	Upper Nicola	1Ar		N	N	T,N,L	MU	2004	frbc	$0	$5,000	$5,000	$5,000	$0	$0	$15,000
M	FFH 9	Species & Population	Pop. Recce	1W	28	N	N	T,N,L	MU	2006	frbc	$0	$25,000	$50,000	$130,000	$145,000	$160,000	$510,000
M	FFH 10	Specie specific inventory	Operating Area	1As		N	E	T,N,L	L	2004	frbc	$4,000	$20,000	$25,000	$30,000	$0	$0	$75,000
M	RP 3	OGMA's	Various locations	1W	32	N	N	T,N,L	L	2005	frbc	$0	$9,000	$25,000	$25,000	$15,000	$0	$74,000
M	ST 1	Stream Temperature	Upper Nicola	1Ar		N	E	T,N,L	L	2004	frbc	$4,500	$6,000	$6,000	$6,000	$0	$0	$18,000
M	ST 2	Stream Temperature	Spius / Nicola	1As		N	E	T,N,L	L	2005	frbc	$155,000	$42,855	$30,000	$30,000	$30,000	$0	$132,855
M	ST 3	Stream Temperature	Coldwater	1T		N	E	T,N,L	L	2003	frbc	$40,000	$62,000	$52,000	$0	$0	$0	$114,000
M	ST 4	Stream Temperature	Spius Crk	1W		N	E	T,N,L	L	2002	frbc	$30,000	$30,000	$0	$0	$0	$0	$30,000
M	TSM 1	Level C	Juliet Crk	1T		N	E	T,L	L	2006	frbc	$17,000	$40,000	$40,000	$40,000	$40,000	$40,000	$200,000
M	VA 1	Highway Visuals	District	1Ar		N	E	T,L	MU	2006	frbc	$7,500	$7,500	$10,000	$10,000	$5,000	$8,000	$40,500
M	VA 2	Visual Corridors	Hwy 5	1W	31	N	E	T,L	R	2004	frbc	$8,000	$5,000	$10,000	$10,000	$0	$0	$25,000
M	WQ 1	Water Quality	Upper Nicola	1Ar		N	E	N,L	MU	2003	frbc	$4,000	$8,500	$8,500	$0	$0	$0	$17,000
M	WQ 2	Channel monitoring	Chataway Ck	1As		N	E	N,L	L	2005	frbc	$15,550	$10,000	$10,000	$10,000	$10,000	$0	$40,000
M	WQ 3	Channel Monitor/AMP	Clapperton	1As		U	E	N,L	L	2005	frbc	$15,000	$20,000	$20,000	$20,000	$20,000	$0	$80,000
M	WQQ 4	Hydrometric Network	Siwash	1W	29	N	E	N,L	MU	2003	frbc	$10,000	$10,000	$10,000	$0	$0	$0	$20,000
M	WWH 1	Wildlife Inventory	Elk Inventory	1W	29	N	E	T,N,L	MU	2003	frbc	$70,000	$65,000	$15,000	$0	$0	$0	$80,000
M	WWH 2	Wildlife Inventory	Goshawk	1W	29	N	E	T,N,L	MU	2003	frbc	$45,000	$40,000	$40,000	$0	$0	$0	$80,000
M	WWH 3	Wildlife Inventory	Tailed Frog	1W	29	N	E	T,N,L	MU	2003	frbc	$10,000	$10,000	$10,000	$0	$0	$0	$20,000
M	WWH 4	Wildlife Inventory	Ungulate Use	1W	29	N	E	T,N,L	MU	2003	frbc	$30,000	$40,000	$75,000	$0	$0	$0	$115,000
M	WWH 5	Wildlife Inventory	Mtn. Beaver	1W	29	N	E	T,N,L	MU	2003	frbc	$5,000	$5,000	$5,000	$0	$0	$0	$10,000
M	WWH 6	Wildlife Inventory	R&B Species	1W	29	N	N	T,N,L	MU	2006	frbc	$0	$25,000	$50,000	$145,000	$200,000	$200,000	$620,000
M	WWH 8	Wildlife Inventory	Goshawk	1Ar		N	E	T,N,L	MU	2005	frbc	$8,500	$10,000	$10,000	$10,000	$10,000	$0	$40,000
												SubT	$965,825	$901,470	$828,500	$757,500	$588,000	$4,041,295

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Merritt TSA - Priority 2

SSFM Activity Summary Table

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	Activity					**Benefits**						**Investment Recommendations**						
Unit	**SSFM Activity #**	**TITLE**	**Location / Description**	Priority OR Lead	**Ranked Score** (a)	**Type** (b)	**Status** (c)	**Plan** (d)	**Scope** (e)	**End Date** (f)	**Funding** (g)	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
		Priority 2																
M	CH 2	Boston Bar Trail	Spius Crk	2As		N	E	T,N,L	MU	2006	frbc	$10,000	$17,500	$20,000	$30,000	$30,000	$0	$97,500
M	GY 1	Growth and Yield	Second growth	2Ar		N	N	T,N,L	MU	2006	frbc	$0	$5,000	$5,000	$5,000	$5,000	$0	$20,000
M	RP 1	OGMA	Operating area	2As		N	N	T,N,L	MU	2006	frbc	$0	$10,000	$10,000	$12,825	$12,825	$0	$45,650
M	RP 2	OGMA's	Cwater/Tul.	2T		N	N	T,N,L	MU	2006	frbc	$0	$60,000	$20,000	$0	$0	$0	$80,000
M	RP 4	Baseline woody debris	District	2Ar		N	N	T,N,L	MU	2006	frbc	$0	$10,000	$10,000	$10,000	$10,000	$0	$40,000
M	VA 3	Lakes Visuals	Ardew Ops 7/yr	2Ar		N	N	T,N,L	MU	2006	frbc	$0	$3,500	$3,500	$3,500	$3,500	$0	$14,000
M	WWH 7	R & B Species	Operating area	2As		N	N	T,N,L	MU	2006	frbc	$0	$10,000	$15,355	$20,000	$20,000	$20,000	$85,355
M	WY 1	Water Yield	Upper Nicola	2Ar		N	N	T,N,L	MU	2006	frbc	$0	$7,500	$7,500	$7,500	$7,500	$0	$30,000
												SubT	$123,500	$91,355	$88,825	$88,825	$20,000	$412,505

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4.3.5 Okanagan TSA

Management Unit Approach to Regional Strategies

Management Unit: Okanagan TSA

Code	Title	MU Concerns, Approach and Direction to Meet Regional Strategies
	M.U. Overview	The TSA has formed an IFPA and is placing priority on delivery of activities to meet IFPA objectives. The Okanagan TSA is unique in terms of complex ecosystems, population and water related priorities. Current levels of funding are inadequate to address priority one needs. Ongoing activities, such as TSM, that can reasonably be delayed without loss of investment will be postponed to later delivery times.
CH	Cultural Heritage	Cultural heritage is an important aspect in the TSA. The activities are deemed a Priority 1 activity however may need to be deferred in order to initiate IFPA programs. Additional information is needed on some activities to bring them into a higher priority category. Highest priority is placed where successful partnerships have been established.
FFH	Fish & Fish Habitat	Fisheries reconnaissance may be deferred across the TSA on the high priority streams. Additional work is needed to satisfactorily address the issue but funding limits the continuation of existing projects and the initiation of new works at this time.
FH	Forest Health	Root rots, growth loss, mortality and TSR netdowns are a concern across the TSA and activities are being recommended to address these as funding permits.
GY	Growth & Yield	At this time, most GY work is being delivered through region. However, uncertainty around SIBEC and OAFs are being addressed thru the IFPA.
IT	Inventory Tools	Air photography and GIS are the two tools of primary importance at this time due to their links with the planning and IFPA processes.
RP	Resource Planning	The resource planning needs associated with LRMP, NTRS and TSR need to be further investigated and schedules developed for delivery of these needs on a TSA wide basis. Projects undertaken to date are deemed a high priority for both proponent and stakeholders. Consideration must be given to obtaining accurate forest inventory information in advance of resource plans to ensure efficiencies of investment are maintained.
ST	Stream Temperature	Although a concern in the TSA, no activities are proposed at this time due to higher priorities to address other issues.
TEM	Terrestrial Ecosystems	Completion of the BEC revisions for the TSA, and PEM bioterrain mapping are the two primary concerns for resolving at this time.
TSM	Terrain Stability	New & Existing TSM activities have been placed into priority 3. These works need to be completed but funding pressures to address other issues may require that some of these projects are delayed.
VA	Visual Aesthetics	Although important, the VA works are new activities and as such may have to be delayed to later years to complete ongoing works under other issues.
VRI	Vegetation Inventories	Completion of the Okan Phase 1 VRI is very important to all issues in the TSA and is being recommended for delivery as a cost share with the MOF. However, the government will need to come up with their portion of funding.

WQ	Water Quality	A number of projects are nearing completion and need to be finished this coming year. Funding may limit those projects which may be undertaken. New activities may have to be postponed.
WY	Water Yield	With the number of water users in the Okanagan this is an important issue but implementation of projects are not being considered at this time due to funding limitations. A strong emphasis to combine this activity with active Water Quality and Resource Plans must be explored to take advantage of existing water stations and data collection.
WWH	Wildlife	Questions around Caribou, Deer and Marten are being addressed as a part of the IFPA work. The initiation of new projects for other species may have to be delayed due to funding limitations.

In addition to the regional issues and strategies, the Okanagan IFPA stakeholders identified an additional issue with strategies for this component of the RMP.

Template 1

Okanagan IFPA SSFM Issue

SSFM Issue: # 1.0	**Title: Improve Resource Management information**

Description of the Regional SSFM Issue:
In the Okanagan TSA, the forest cover information is considered out of date thus, management decisions must be made with a conservative approach to compensate for possible errors in the data. A lack of understanding of forest growth rates and potential site indices also contributes to the conservative approach. By updating the information database, better-informed decision can be made and will more accurately reflect the timber volumes available for harvest. The Chief Forester makes a determination as to the amount of timber available for harvest in each timber supply area every five years and would use the most accurate information in his considerations.

Sustainability Relationships: (timber, non-timber, ecological, etc)
Timber: Knowing what is presently growing on the forest landbase and understanding the growth rates and potential site productivity will allow for more accurate determinations for the allowable annual cut thus helping to ensure long term stability of the timber resource.
NonTimber: Accurate vegetation information and growth rates will benefit wildlife habitat management thus helping to ensure adequate habitat and forage is maintained on the forest land base.
Ecological: Accurate vegetation information will assist in meeting old growth management objectives.
Water management: Accurate vegetation information and knowing growth rates is key in managing the hydrological processes which are key to maintaining water quality and supply in the Okanagan.

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews: Reliable Vegetation Inventories linked to accurate measures of Site Index will provide the key foundation information upon which the Chief Forester may make informed AAC determinations for TSR3. The VRI provides information for setting Short term harvest rates while maintaining sustainability over the long term. Current TSR determination process considers the lack or absence of realistically accurate VRI and reliable site index by applying downward pressure on the AAC to account for the process uncertainty.
Non-timber Resource Strategies: Reliable Ecosystem inventories at a strategic level will be used for managing wildlife habitat and forage areas, OGMAs, Biodiversity and water quantity and quality.
LRMPs: Reliable Vegetation mapping provides the basic tools upon which specific strategies identified in the LRMP can be managed for wildlife habitat and forage, biodiversity and water quantity and quality.
Comments:
Documenting the growth rates of tree species and having accurate site indices determined would greatly assist the Chief Forester in determining a sustainable allowable annual cut.

Template 2
Okanagan IFPA Strategies to Address SSFM Issues

SSFM Issue: # 1.1	**Title: Improve Resource Management information**

Strategy to Address the Issue:
Improving the Forest Cover Vegetative information and gaining a better understanding of forest growth rates and site productivity is key to improving resource management information. Reliable ecosystem mapping made possible through the innovative and cost effective implementation of Predictive Ecosystem Mapping linked to Site Index Biological Ecological Classification (SIBEC) will provide useful inputs into the future TSR3 analysis for rate of growth and yield for regenerated stands. Accurate inputs of Growth and Yield measured in the form of Site Index is one of three conditions to be evaluated in determining the long term harvest levels through a Timber Supply Review process.

Status of Existing Knowledge: (completed & ongoing)
There exists a basic Biological Ecological Classification knowledge of the ecosystems in the Okanagan TSA. BioGeoClimatic inventory at a scale of 1:250,000. There exists approximately 1800 Ecosystem plots resulting from the Terrestrial Ecosystem Mapping in the TSA largely focused in TFL 15, and in the Parks of the Southern Okanagan and in the recently completed PEM inventory on TFL49. Existing SIBEC inventory is generally limited to the TFL 15 and TFL49.

Required Activities & Dependencies to Implement the Strategy:
The Regional BEC refinement process is scheduled to commence in the Okanagan having completed all other TSAs in the Region. Currently, the Regional Ecologist is focussing on completion of the dry belt Interior Douglas Fir and Ponderosa Pine Ecosystems by building on existing completed BEC zones in the adjoining Merritt TSA. Completion of BEC refinement in the Wet Belt ESSF and ICH is scheduled there after. Information within the Kamloops Region and adjoining Arrow TSA is available through extension to build knowledge basis of both the dry belt and wet belt ecosystem.

Acquisition of 1:30,000 softcopy photography is required for both PEM and VRI to provide current condition of the forested landbase. Use of existing low level 1:15000 photos is recommended for the initial Bioterrain mapping of the dry-belt areas. Upon availability of the softcopy image DIAP, Bioterrain and VRI mapping can be completed on the complex Wet belt zones of the TSA.

A Bioterrain inventory linking the static geographic landbase covered with dynamic vegetative seral stages is required to monitor changes to the ecosystems over time. PEM offers an cost effective process for updating the Predictive Ecosystem Mapping when an updated inventory input layer is available to be included in the modelling / mapping process.

Sustainability and Performance Indicators:
Conditions to Resolve Issue and Achieve Sustainability:
Observations and reliable data for the prediction of current inventory and its associated growth & yield of stands provide the basis and foundation of a monitoring program to measure the growth and yield of the managed forest and ultimately the Long Term Harvest Level (LTHL). An accurate estimate of the LTHL provides the Chief Forester with the confidence in setting both the current and long term AAC.
Interim Targets, Milestones and Performance Measures:
Include acquisition of aerial photos for the TSA, acceptance and acquisition of 1:15000 is required for Bioterrain field stratification of the landbase and for VRI. Development of Predictive Ecosystem Mapping program can provide reasonably accurate measures of the forest rate of growth over the short term (2 Years) while a more lengthy process to complete a Vegetation Resource Inventory is completed by 2006.

Relationship to Other Strategies or Issues:
Related Strategies include Vegetation Resource Inventory sharing similar information and decision support tools in the short term for Timber Supply Review. Managing Non Timber Resources such as Wildlife habitat and water quantity production in the future requires similar access to both 1:30000 softcopy aerial photos and ecosystem mapping and current vegetation cover.

Okanagan TSA - Priority 1

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		Priority 1																
O	IT 1	IT-GIS	OK TSA	1	31	U	E	T,N,L	MU	2007	frbc	$35,000	$60,000	$60,000	$60,000	$60,000	$60,000	$300,000
O	IT 2	IT-Photos	OK TSA	1	39	U	E	T,N,L	MU	2003	frbc	$340,000	$200,000	$0	$0	$0	$0	$200,000
O	TEM 1	BEC	OK TSA	1	35	N	E	L	MU	2003	frbc	$142,000	$142,000	$0	$0	$0	$0	$142,000
O	TEM 2	PEM - Bioterrain Mapping	OK TSA	1	37	N	E	L	MU	2004	frbc	$700,000	$560,000	$200,000	$0	$0	$0	$760,000
O	VRI 1	Okan VRI Phase 1	OK TSA	1	40	N	E	T,N,L	R	2005	S	$100,000	$330,000	$275,000	$230,000	$0	$0	$835,000
O	WWH 9	Caribou	OK TSA	1	34	N	E	L	MU	2007	frbc	$75,000	$100,000	$100,000	$100,000	$100,000	$100,000	$500,000
O	WWH 10	Deer Forage & Cover	OK TSA	1	31	N	E	L	MU	2006	frbc	$100,000	$232,000	$220,000	$200,000	$50,000	$0	$702,000
												Sub T	$1,624,000	$855,000	$590,000	$210,000	$160,000	$3,439,000

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Okanagan TSA - Priority 2

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		Priority 2																
O	CH 1	AISs - LP	Little Shwp Banc	2	NA	N	E	na	L	2002	frbc	$15,000	$15,000	$0	$0	$0	$0	$15,000
O	CH 5	AISs G	LSB/Olalla/Pnsk	2	NA	N	E	na	L	2002	frbc	$25,000	$0	$0	$0	$0	$0	$0
O	CH 10	AIS Local Bands - R	Vernon FD	2	NA	N	E	na	L	2007	frbc	$5,000	$5,000	$5,000	$5,000	$5,000	$5,000	$25,000
O	FFH 1	Fish Habitat & Recon - R	Duteau	2	25	N	E	N,L	L	2002	frbc	$25,000	$15,273	$0	$0	$0	$0	$15,273
O	FFH 2	Fish Habitat & Recon - R	Kettle/Winni	2	25	N	E	N,L	L	2002	frbc	$30,000	$19,067	$0	$0	$0	$0	$19,067
O	FFH 3	Fish Habitat & Recon - R	Silver Hills	2	25	N	E	N,L	L	2002	frbc	$40,000	$10,127	$0	$0	$0	$0	$10,127
O	FFH 7	Fish Habitat & Recon - W	Hedley/McNau	2	24	N	N	N,L	L	2003	frbc	$0	$40,000	$35,000	$35,000	$35,000	$35,000	$180,060
O	FFH 10	Fish Habitat & Recon - LP	Anesty	2	25	N	E	N,L	L	2002	frbc	$20,000	$20,000	$0	$0	$0	$0	$20,000
O	FFH 11	Fish Habitat & Recon - LP	Anesty/Seymour	2	25	N	E	N,L	L	2002	frbc	$85,000	$85,000	$0	$0	$0	$0	$85,000
O	RP 2	Spatial Planning - G	Trout Crk	2	24	U	E	T,N,L	L	2004	frbc	$50,000	$50,000	$50,000	$50,000	$0	$0	$150,000
O	RP 3	Adapt. Mgt Plan - R	Mission/Trout	2	25	U	E	T,N,L	L	2003	frbc	$125,000	$125,000	$100,000	$100,000	$100,000	$75,000	$500,000
O	RP 5	Adapt. Mgt Plan - R	Monashee	2	22	U	E	T,N,L	L	2003	frbc	$15,000	$15,000	$0	$0	$0	$0	$15,000
O	RP 6	Adapt. Mgt Plan - R	Sicamous	2	22	U	E	T,N,L	L	2003	frbc	$15,000	$5,000	$0	$0	$0	$0	$5,000
O	VA 1	Visuals on Hiways/Lakes	Vernon Area	2	25	N	N	T,L	MU	2007	frbc	$0	$38,000	$19,000	$19,000	$19,000	$19,000	$114,000
O	VA 3	LRMP Visuals	Hiways & 2 lks	2	24	N	N	T,L	MU	2007	frbc	$0	$30,000	$15,000	$15,000	$15,000	$15,000	$90,000
O	VA 4	LRMP Visuals	17 Lakes	2	26	N	N	T,L	MU	2007	frbc	$0	$14,500	$18,000	$18,000	$18,000	$18,000	$86,500
O	WQ 1	Penticton WQ - W	Penticton/Vasx	2	29	N	E	N	L	2002	frbc	$16,000	$16,000	$0	$0	$0	$0	$16,000
O	WQ 2	U Kelowna Cr WQ - R	Kelowna Crk	2	29	N	E	N	L	2002	frbc	$5,000	$8,000	$0	$0	$0	$0	$8,000
O	WQ 3	Joe Rich WQ - G	Joe Rich	2	29	N	E	N	L	2002	frbc	$9,000	$9,000	$0	$0	$0	$0	$9,000
O	WQ 4	Deer Crk WQ - T	Oyama,Deer, Etc	2	29	N	E	N	L	2002	frbc	$35,000	$17,500	$0	$0	$0	$0	$17,500
O	WQ 5	Keremeos WQ - W	Keremeos, etc	2	29	N	E	N	L	2002	frbc	$47,500	$24,000	$0	$0	$0	$0	$24,000
O	WQ 6	WQ & Hydrometric - R	Chase Crk	2	27	N	E	N	L	2006	frbc	$10,000	$8,000	$10,000	$10,000	$10,000	$10,000	$48,000
O	WQ 7	Brash Cr WQ - R	BRASH CR	2	29	N	E	N	L	2002	frbc	$52,500	$8,000	$0	$0	$0	$0	$8,000
O	WQ 8	Meighan Cr WQ	MEIGHAN CR	2	24	N	N	N	L	2005	frbc	$0	$17,500	$17,500	$17,500	$8,000	$0	$60,500
O	WWH 11	Martin	OK TSA	2	31	N	E	L	MU	2004	frbc	$50,000	$65,000	$50,000	$0	$0	$0	$115,000
O	WWH 14	Deer Winter Range Inv	Lumby Op Area	2	25	N	E	N	L	2004	frbc	$40,000	$40,000	$40,000	$0	$0	$0	$80,000
												SubT	$699,967	$135,500	$45,500	$36,000	$28,000	$472,500

(a) Ranked Score - Enter the total of the TSR, NTRS, LRMP RIC, Timing from Box 12's on template 3

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(c) & (d) Status - N = new, E = Existing .... Plan - T = TSR, N = NTRS, L = LRMP (or specify)

(e) Scope - P = Province, R = Region, MU = Management, L = Licensee

(f) End Date - For multi-year activities, enter the year to be completed.

(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

Okanagan TSA - Priority 3

SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity					Benefits						Investment Recommendations						
Unit	SSFM Activity #	TITLE	Location / Description	Priority OR Lead	Ranked Score (a)	Type (b)	Status (c)	Plan (d)	Scope (e)	End Date (f)	Funding (g)	Previous Invest 2001/02	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	Five Year Total 2002/07
		Priority 3																
O	CH 6	AOA	NOT SPECIFIED	3	NA	N	N	na	MU	2003	frbc	$0	$10,000	$0	$0	$0	$0	$10,000
O	CH 7	AOA MODELING	NOT SPECIFIED	3	NA	U	N	na	MU	2003	frbc	$0	$50,000	$0	$0	$0	$0	$50,000
O	CH 8	AIS Adams & NIB	NOT SPECIFIED	3	NA	N	N	na	L	2003	frbc	$0	$45,000	$0	$0	$0	$0	$45,000
O	CH 9	AIS Spall IB	NOT SPECIFIED	3	NA	N	N	na	L	2003	frbc	$0	$45,000	$0	$0	$0	$0	$45,000
O	FFH 8	FHAT20 Modelling	Lumby Op Area	3	21	N	N	T,N,L	L	2004	frbc	$0	$20,000	$20,000	$0	$0	$0	$40,000
O	FH 1	FH Managed Stands - T	FG+	3	3	N	E	T	L	2006	frbc	$12,000	$10,000	$10,000	$10,000	$10,000	$0	$40,000
O	FH 2	For Health Inv - LP	LP Oper Area	3	23	N	N	T,L	L	2002	frbc	$8,000	$8,000	$0	$0	$0	$0	$8,000
O	RP 1	Spatial Planning - T	Overmature	3	4	U	E	E	L	2005	S	$36,000	$45,000	$40,000	$50,000	$0	$0	$135,000
O	TSM 1	Level C - G	Trout Crk	3	21	N	E	T	L	2004	frbc	$10,000	$30,000	$10,000	$0	$0	$0	$40,000
O	TSM 4	Level C - R	Silver/Gallon	3	20	N	E	T	L	2006	frbc	$18,000	$18,000	$18,000	$18,000	$18,000	$0	$72,000
O	TSM 5	Level C - R	Greenbush	3	19	N	E	T	L	2007	frbc	$49,244	$136,000	$136,000	$136,000	$136,000	$136,000	$680,000
O	TSM 6	Level C - R	Harris/Duteau	3	19	N	E	T	L	2007	frbc	$30,000	$27,560	$27,560	$27,560	$27,560	$27,560	$137,800
O	TSM 7	Level C - R	Wap Crk	3	19	N	E	T	L	2007	frbc	$53,607	$27,000	$27,000	$27,000	$27,000	$27,000	$135,000
O	TSM 8	Level C - F	Gaps in dist	3	19	N	E	T	L	2006	frbc	$50,000	$50,000	$50,000	$50,000	$50,000	$0	$200,000
O	TSM 9	Level C	SA-Dist	3	16	N	N	T	L	2004	frbc	$0	$130,000	$100,000	$0	$0	$0	$230,000
O	TSM 10	Level C - F	SA-Dist	3	16	N	N	T	L	2005	frbc	$0	$50,000	$50,000	$50,000			$150,000
O	WQ 9	Glanzier Cr WQ	Glanzier Crk	3	24	N	N	N	L	2005	frbc	$0	$17,500	$17,500	$17,500	$8,000	$0	$60,500
O	WQ 10	Fortune Cr WQ	Forturne Crk	3	24	N	N	N	L	2005	frbc	$0	$17,500	$17,500	$17,500	$8,000	$0	$60,500
O	WQ 11	Naramata Cr WQ	Naramata Crk	3	24	N	N	N	L	2005	frbc	$0	$17,500	$17,500	$17,500	$8,000	$0	$60,500
O	WWH 1	WWH Access Mgt Plan - V	Sheep Kill S Ok	3	21	N	N	N	MU	2002	frbc	$0	$6,000	$0	$0	$6,000	$0	$12,000
O	WWH 2	Wildlife Studies	Naramata Elk	3	20	N	N	N	MU	2002	frbc	$0	$6,000	$0	$0	$6,000	$0	$12,000
O	WWH 3	Wildlife Study Shushwap	Goat Inv Shwp	3	20	N	N	N	MU	2002	frbc	$0	$30,000	$0	$0	$30,000	$0	$60,000
O	WWH 4	Wildlife Study Okanagan	Goat Inv S. OK	3	20	N	N	N	MU	2002	frbc	$0	$20,000	$0	$0	$20,000	$0	$40,000
O	WWH 5	Wildlife Study Okanagan	Moose Inv	3	20	N	N	N	MU	2006	frbc	$0	$0	$15,000	$20,000	$40,000	$0	$75,000
O	WWH 6	Wildlife Study Okanagan	Mule Deer	3	20	N	N	N	MU	2007	frbc	$0	$12,000	$12,000	$12,000	$12,000	$12,000	$60,000
O	WWH 7	Wildlife Study S. Okan	Sheep Inv	3	22	N	N	N	MU	2007	frbc	$0	$3,500	$3,500	$3,500	$3,500	$3,500	$17,500
O	WWH 8	Wildlife Study Okanagan	White Tails	3	18	N	N	N	MU	1007	frbc	$0	$5,000	$10,000	$5,000	$5,000	$5,000	$30,000
O	WWH 12	Wildlife Study	Goshawk Nests	3	21	N	N	N	MU	2007	frbc	$0	$7,000	$7,000	$7,000	$7,000	$7,000	$35,000
O	WWH 13	Plant Study for WWH	R&B Plants	3	15	N	N	N	MU	2006	frbc	$0	$0	$20,000	$20,000	$20,000	$0	$60,000
O	WWH 15	R&B Listed Spp	Lumby Op Area	3	15	N	E	N	I	2005	frbc	$40,000	$40,000	$40,000	$80,000	$80,000	$80,000	$320,000
O	WY 1	Water Yield OK TSA	Mission,Trout	3	23	N	N	T,N,L	MU	2007	frbc	$0	$120,000	$100,000	$100,000	$100,000	$100,000	$520,000
												SubT	$1,003,560	$748,560	$668,560	$622,060	$398,060	$3,440,800

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(c) & (d) Status - N = new, E = Existing .... Plan - T = TSR, N = NTRS, L = LRMP (or specify)
(e) Scope - P = Province, R = Region, MU = Management, L = Licensee
(f) End Date - For multi-year activities, enter the year to be completed.
(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

4.3.6 Interfor IFPA

Management Unit Approach to Regional Strategies

Management Unit: Adams Lake IFPA

Code	Title	MU Concerns, Approach and Direction to Meet Regional Strategies
CH	Cultural Heritage	Adams Lake is attempting to increase First Nations involvement in our overall forest management activities. ALIB has identified 4 watersheds of significance to them. This funding will attempt to increase their involvement. Mike Blackstock is the suggested contact. **Budget = $50,000**
FFH	Fish & Fish Habitat	The third year of a coho fish fence will be established on Sinmax to establish baseline returns. **Budget = $30,000**.
FH	Forest Health	An overall strategy for forest health was raised as a concern during recent certification audits. Also, issues were raised with gall rust, root rot treatment effectiveness in current operations, and bark beetle risk assessments. Total budget proposed is **$80,000**
GY	Growth & Yield	Several G&Y projects are proposed including high elevation site index analysis based on Regional and Provincial concerns. In addition, an evaluation of rust resistant white pine is being done with G&Y monitoring plots established, stand level silviculture analysis is also continuing to establish appropriate silviculture regimes, further work on ICH modeling is also proposed as well as analyses of OAF's, and a PSP strategy developed. Total budget is **$217,000**
IT	Tools	
RP	Resource Planning	It will be 5 years since the beginning of our IFPA. We plan on updating the forestry plan to reflect the evolution of the program **($55,000)** In addition, we plan on contributing to more global issues such as carbon sequestering studies **($15,000)** and a study to evaluate coarse woody debris effectiveness in our operations **($15,000**) Managing problem forest types is also a concern particularly in the timber berth as identified in previous years. Further work is proposed to continue to reclaim lost growing sites **($40,000**) Managing deciduous for economic value has also been identified by First Nations as potential for their new sawmill **($20,000)** is proposed to develop appropriate silviculture regimes to manage these stands respecting the LRMP. Another proposed project is to continue with the efforts to update the watershed assessment procedure based on new scientific knowledge. Working with Rita Winkler, the budget is **$30,000**. The last project as described above is to build silviculture regimes based on the research done in the last four years **($25,000**)
ST	Stream Temperature	
TEM	Terrestrial Ecosystems	Based on the completed TEMr project earlier, we plan on further refinements to the information to evaluate rare plants and ecosystems. **($75,000**)
TSM	Terrain	
VA	Visual	
VRI	Vegetation Inventories	To satisfy long term monitoring requirements, our existing VRI plots need to be upgraded to monitoring standards. This will help evaluate effectiveness over time. **($100,000**)
WQ	Water Quality	Effectiveness monitoring of WRP is needed to help the adaptive management process of the program into the future. Working with Ernie Carson, a plan is being proposed to establish an effectiveness study in Hiuihill Creek **($60,000**)
WY	Water Yield	
WWH	Wildlife	A further study is needed to evaluate the effectivess of WTP's, WT's, and OGMA's in current operations. **$40,000** is proposed for this work.

Interfor IFPA - Template 4

SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity				Benefits							Investment Recommendations						
Unit	SSFM Activity	TITLE	Location / Description	Priority OR Lead	Ranked Score (a)	Type (b)	Status (c)	Plan (d)	Scope (e)	End Date (f)	Funding (g)	Previous Invest 2001/02	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	Five Year Total 2002/07
		Priority 1																
Iifpa	CH 1	Co-Management	Adams Lake	1		E	E		MU	2002	frbc	$0	$50,000	$0	$0	$0	$0	$50,000
Iifpa	FFH 1	Sinmax Fish Fence	Adams Lake	1		U	E	N	L	2002	frbc	$30,000	$30,000	$0	$0	$0	$0	$30,000
Iifpa	FH 1	Forest Health Strategy	Adams Lake	1		U	N	T	L	2002	frbc	$0	$15,000	$0	$0	$0	$0	$15,000
Iifpa	FH 2	Gall Rust	Adams Lake	1		N	N		L	2002	frbc	$0	$15,000	$0	$0	$0	$0	$15,000
Iifpa	FH 3	Operational root rot	Adams Lake	1		N	N	T	L	2002	frbc	$0	$30,000	$0	$0	$0	$0	$30,000
Iifpa	GY 1	High elevation SI	Adams Lake	1		N	E	T	MU	2002	frbc	$15,000	$80,000	$0	$0	$0	$0	$80,000
Iifpa	GY 2	Rust resistant white pine	Adams Lake	1		N	N	T	MU	2002	frbc	$0	$15,000	$0	$0	$0	$0	$15,000
Iifpa	GY 3	Stand Level Silviculture	Adams Lake	1		N	E		L	2002	frbc	$35,000	$20,000	$0	$0	$0	$0	$20,000
Iifpa	GY 4	ICH Modeling	Adams Lake	1		U	E		L	2002	frbc	$40,000	$27,000	$0	$0	$0	$0	$27,000
Iifpa	GY 5	OAF Adjustment	Adams Lake	1		N	N	T	L	2002	frbc	$0	$15,000	$0	$0	$0	$0	$15,000
Iifpa	GY 6	PSP Strategy	Adams Lake	1		U	N	T	L	2002	frbc	$0	$20,000	$0	$0	$0	$0	$20,000
Iifpa	RP 2	Carbon Sequestering	Adams Lake	1		U	N	T,L	R	2002	frbc	$0	$15,000	$0	$0	$0	$0	$15,000
Iifpa	RP 3	Coarse Woody Debris	Adams Lake	1		N	N	T,N,L	MU	2002	frbc	$0	$15,000	$0	$0	$0	$0	$15,000
Iifpa	RP 4	Timber Berth Rehab	Adams Lake	1		U	E		L	2002	?	$25,000	$40,000	$0	$0	$0	$0	$40,000
Iifpa	RP 5	Deciduous Management	Adams Lake	1		U	E	T	L	2002	frbc	$5,000	$20,000	$0	$0	$0	$0	$20,000
Iifpa	RP 6	Watershed Indicator	Adams Lake	1		U	E		L	2002	frbc	$50,000	$30,000	$0	$0	$0	$0	$30,000
Iifpa	RP 7	Silviculture Regimes	Adams Lake	1		U	E		L	2002	frbc	$10,000	$25,000	$0	$0	$0	$0	$25,000
Iifpa	TEM 1	Rare Plants & Ecosystems	Adams Lake	1		N	E	N,L	MU	2002	frbc	$55,000	$75,000	$0	$0	$0	$0	$75,000
Iifpa	VRI 1	VRI Monitoring plots	Adams Lake	1		U	N	T	L	2002	frbc	$0	$100,000	$0	$0	$0	$0	$100,000
Iifpa	WQ 1	WRP Effectiveness Study	Adams Lake	1		U	N		L	2002	frbc	$0	$60,000	$0	$0	$0	$0	$60,000
Iifpa	WWH 1	OGMA Effectiveness	Adams Lake	1		N	N	T,N,L	MU	2002	frbc	$0	$40,000	$0	$0	$0	$0	$40,000
												SubT	$737,000					$737,000
		Priority 2																
Iifpa	FH 4	Bark Beetle Assessment	Adams Lake	2		N	N	T	L	2002	?	$0	$20,000	$0	$0	$0	$0	$20,000
Iifpa	GY 7	ICH Demo Site	Adams Lake	2		U	E		L	2002	?	$0	$40,000	$0	$0	$0	$0	$40,000
Iifpa	RP 1	Update Forestry Plan	Adams Lake	2		E	N		L	2002	?	$0	$55,000	$0	$0	$0	$0	$55,000
												SubT	$115,000	$0	$0	$0	$0	$115,000
												$0	$0	$0	$0	$0	$0	$0
													$852,000	$0	$0	$0	$0	$852,000

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4.3.7 Merritt IFPA

Merritt IFPA - Template 4 - Page 1

SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity					**Benefits**						**Investment Recommendations**						
Unit	**SSFM Activity #**	**TITLE**			**Ranked Score** (a)	**Type** (b)	**Status** (c)	**Plan** (d)	**Scope** (e)	**End Date** (f)	**Funding** (g)	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
	Priority 1																	
MI	CH 1	Joint Co-management plan for FDP	TSA		NA	E	N	TN	MU	2002	frbc	$0	$20,000	$0	$0	$0	$0	$20,000
MI	CH 2	Digitize First Nations Data	TSA		NA	U	E	T	MU	2002	frbc	$55,000	$50,000	$0	$0	$0	$0	$50,000
MI	CH 3	Identification of Locally Significant Plan	TSA		NA	N	N	X	MU	2002	frbc	$0	$40,000	$0	$0	$0	$0	$40,000
MI	CH 4	Co-management Proposals from Bands	TSA		NA	E	E	X	MU	2002	frbc	$325,000	$360,000	$0	$0	$0	$0	$360,000
MI	FFH 1	Fisheries Integration Program	TSA		NA	E	N	N	MU	2002	frbc	$0	$15,000	$0	$0	$0	$0	$15,000
MI	FFH 2	Field Truth Stream Class Model	TSA		NA	N	N	N	MU	2002	frbc	$0	$100,000	$0	$0	$0	$0	$100,000
MI	FFH 3	Anadromous Fish	TSA		NA	N	N	N	MU	2002	frbc	$0	$25,000	$0	$0	$0	$0	$25,000
MI	FFH 4	Rare Fish Habitat	TSA		NA	N	N	N	MU	2002	frbc	$0	$65,000	$0	$0	$0	$0	$65,000
MI	FH 1	Forest Health Plan	TSA		NA	U	N	T	MU	2002	frbc	$0	$55,000	$0	$0	$0	$0	$55,000
MI	GY 1	Douglas-fir Yield Curves	TSA		NA	N	E	T	MU	2002	frbc	$15,000	$45,000	$0	$0	$0	$0	$45,000
MI	GY 2	High Elev Problem Analysis	TSA		NA	N	N	T	MU	2002	frbc	$0	$65,000	$0	$0	$0	$0	$65,000
MI	GY 3	Documentation of Old Growth Attributes	TSA		NA	U	N	TN	MU	2002	frbc	$0	$105,000	$0	$0	$0	$0	$105,000
MI	IT 1	Allocating Non-timber Resources	TSA		NA	U	N	T	MU	2002	frbc	$0	$75,000	$0	$0	$0	$0	$75,000
MI	IT 2	Biodiversity Framework Modelling	TSA		NA	U	N	TN	MU	2002	frbc	$0	$40,000	$0	$0	$0	$0	$40,000
MI	IT 3	Application of Douglas-fir Protocols	TSA		NA	U	N	TN	MU	2002	frbc	$0	$65,000	$0	$0	$0	$0	$65,000
MI	IT 4	Central Database Management	TSA		NA	U	E	X	MU	2002	frbc	$60,000	$90,000	$0	$0	$0	$0	$90,000
MI	RP 1	Silviculture Program Analysis	TSA		NA	U	N	T	MU	2002	frbc	$0	$75,000	$0	$0	$0	$0	$75,000
MI	RP 2	Economic Analyis of Silv Regimes	TSA		NA	U	N	T	MU	2002	frbc	$0	$40,000	$0	$0	$0	$0	$40,000
MI	RP 3	Comparison of Spatial Model & Layout	TSA		NA	U	N	T	MU	2002	frbc	$0	$20,000	$0	$0	$0	$0	$20,000
MI	RP 4	Socio-Economic Study	TSA		NA	U	N	T	MU	2002	frbc	$0	$25,000	$0	$0	$0	$0	$25,000
MI	RP 5	Douglas-fir Alternative Management Tria	TSA		NA	U	N	TN	MU	2002	frbc	$0	$45,000	$0	$0	$0	$0	$45,000
MI	RP 6	Support LRMP Process	TSA		NA	E	N	L	MU	2002	frbc	$0	$25,000	$0	$0	$0	$0	$25,000
MI	RP 7	Re-define PFTs Using PEM	TSA		NA	U	N	T	MU	2002	frbc	$0	$20,000	$0	$0	$0	$0	$20,000
MI	RP 8	Operating Area Analysis	TSA		NA	U	E	T	MU	2002	frbc	$30,000	$25,000	$0	$0	$0	$0	$25,000
MI	RP 9	Incorporating Data into LU Planning	TSA		NA	U	N	TN	MU	2002	frbc	$0	$90,000	$0	$0	$0	$0	$90,000

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Merritt IFPA - Template 4 - Page 2

SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity				**Benefits**							**Investment Recommendations**						
Unit	**SSFM Activity #**	**TITLE**			**Ranked Score** (a)	**Type** (b)	**Status** (c)	**Plan** (d)	**Scope** (e)	**End Date** (f)	**Funding** (g)	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
	Priority 1																	
MI	TEM 1	Rare or Sensitive Plant Assoc Sites	TSA		NA	U	N	TN	MU	2002	frbc	$0	$15,000	$0	$0	$0	$0	$15,000
MI	TEM 2	PEM1 Documentation Report	TSA		NA	E	E	TN	MU	2002	frbc	$60,000	$20,000	$0	$0	$0	$0	$20,000
MI	TEM 3	PEM1 Verification Phase 2	TSA		NA	N	E	TN	MU	2002	frbc	$60,000	$80,000	$0	$0	$0	$0	$80,000
MI	VA 1	VQO Volume Recovery Trial	TSA		NA	U	N	T	MU	2002	frbc	$0	$30,000	$0	$0	$0	$0	$30,000
MI	VRI 1	Implement Monitoring Program	TSA		NA	N	E	T	MU	2002	frbc	$27,000	$80,000	$0	$0	$0	$0	$80,000
MI	VRI 2	Quantify Dougals-fir Reserves	TSA		NA	N	N	T	MU	2002	frbc	$0	$20,000	$0	$0	$0	$0	$20,000
MI	VRI 3	Douglas-fir Sub-unit Inventory	TSA		NA	N	E	T	MU	2002	frbc	$10,000	$150,000	$0	$0	$0	$0	$150,000
MI	VRI 4	NVAF Plot Establishment	TSA		NA	N	N	T	MU	2002	frbc	$0	$105,000	$0	$0	$0	$0	$105,000
MI	WQ 1	Hydrological Studies	TSA		NA	N	N	N	MU	2002	frbc	$0	$80,000	$0	$0	$0	$0	$80,000
MI	WWH 1	Wildlife Themes for Resource Values Ma	TSA		NA	U	N	N	MU	2002	frbc	$0	$50,000	$0	$0	$0	$0	$50,000
MI	WWH 2	Wildlife Habitat Species Model Testing	TSA		NA	N	N	N	MU	2002	frbc	$0	$100,000	$0	$0	$0	$0	$100,000
MI	WWH 3	Completion of Wildlife Models	TSA		NA	U	E	N	MU	2002	frbc	$95,000	$40,000	$0	$0	$0	$0	$40,000
MI	WWH 4	Wildlife Domonstration Areas	TSA		NA	E	N	N	MU	2002	frbc	$0	$60,000	$0	$0	$0	$0	$60,000
MI	WWH 5	Ungulate Winter Range Monitoring	TSA		NA	N	N	N	MU	2002	frbc	$0	$120,000	$0	$0	$0	$0	$120,000
MI	WWH 6	Wildlife Management Monitoring	TSA		NA	N	N	N	MU	2002	frbc	$0	$45,000	$0	$0	$0	$0	$45,000
MI	WWH 7	Grizzly Bear Habitat Protection	TSA		NA	N	N	N	MU	2002	frbc	$0	$45,000	$0	$0	$0	$0	$45,000
												SubT	$2,620,000					$2,620,000
MI	OFF 1	NSIFS Technical Implementation	TSA		NA	E	E	X	MU	2002	frbc	$80,000	$90,000	$0	$0	$0	$0	$90,000
MI	OFF 2	Spatial Timber Supply Support	TSA		NA	E	E	X	MU	2002	frbc	$110,000	$15,000	$0	$0	$0	$0	$15,000
MI	OFF 3	UCC Peer Review of Enviro Program	TSA		NA	E	E	X	MU	2002	frbc	$20,000	$25,000	$0	$0	$0	$0	$25,000
MI	OFF 4	Enviro Plan Implementation Strategy	TSA		NA	E	N	X	MU	2002	frbc	$0	$40,000	$0	$0	$0	$0	$40,000
MI	OFF 5	Range & Noxious Weed Analysis & Plan	TSA		NA	U	N	X	MU	2002	frbc	$0	$30,000	$0	$0	$0	$0	$30,000
MI	OFF 6	New Silviculture Regimes - Part 3	TSA		NA	E	E	T	MU	2002	frbc	$15,000	$55,000	$0	$0	$0	$0	$55,000
MI	OFF 7	Workshop on NSIFS Data	TSA		NA	E	E	X	MU	2002	frbc	$12,000	$50,000	$0	$0	$0	$0	$50,000
MI	OFF 8	Admin - O/H	TSA		NA	E	E	X	MU	2002	frbc	$210,000	$330,000	$0	$0	$0	$0	$330,000
MI	OFF 9	Board of Directors Needs	TSA		NA	E	E	X	MU	2002	frbc	$45,000	$85,000	$0	$0	$0	$0	$85,000
MI	OFF 10	Changing Practices Demonstrations	TSA		NA	E	N	T	MU	2002	frbc	$0	$135,000	$0	$0	$0	$0	$135,000
MI	OFF 11	Resource Project Co-ordination	TSA		NA	E	N	X	MU	2002	frbc	$0	$85,000	$0	$0	$0	$0	$85,000
												SubT Total	$940,000 $3,560,000	$0	$0	$0	$0	$940,000 $3,560,000
													$3,560,000	$0	$0	$0	$0	$3,560,000

(a) Ranked Score - Enter the total of the TSR, NTRS, LRMP RIC, Timing from Box 12's on template 3

(b) Type - E = (Organizational) U = (Tools, Applications, Extension) N = (inventories or research)

(c) & (d) Status - N = new, E = Existing .... Plan - T = TSR, N = NTRS, L = LRMP (or specify)

(e) Scope - P = Province, R = Region, MU = Management, L = Licensee

(f) End Date - For multi-year activities, enter the year to be completed.

(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

4.3.8 TFL 15 - Weyerhaeuser

TFL 15 - Weyerhaeuser
SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity				**Benefits**							**Investment Recommendations**						
Unit	**SSFM Activity**	**TITLE**	**Location / Description**	Priority OR Lead	**Ranked Score** (a)	**Type** (b)	**Status** (c)	**Plan** (d)	**Scope** (e)	**End Date** (f)	**Funding** (g)	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
		Priority 1**																
T15	GY 1	OAF Sampling	TFL 15	1	26	N	N	T	L	2002	frbc	$0	$35,000	$0	$0	$0	$0	$35,000
T15	RP 1	Small Wood Inventory	TFL 15	1	28	N	N	T	L	2002	frbc	$0	$50,000	$0	$0	$0	$0	$50,000
T15	VRI 1	Phase 1 Adjustment	TFL 15	1	34	U	E	T	L	2002	frbc	$120,000	$20,000	$0	$0	$0	$0	$20,000
												SubT	$105,000	$0	$0	$0	$0	$105,000
		Priority 2																
T15	CH 1	Arch Inventory Study	TFL 15	2	22	N	E	T,L	L	2007	frbc	$20,000	$20,000	$20,000	$20,000	$20,000	$20,000	$100,000
													$125,000	$20,000	$20,000	$20,000	$20,000	$205,000

(a) Ranked Score - Enter the total of the TSR, NTRS, LRMP RIC, Timing from Box 12's on template 3

(b) Type - E = (Organizational) U = (Tools, Applications, Extension) N = (inventories or research)

(c) & (d) Status - N = new, E = Existing .... Plan - T = TSR, N = NTRS, L = LRMP (or specify)

(e) Scope - P = Province, R = Region, MU = Management, L = Licensee

(f) End Date - For multi-year activities, enter the year to be completed.

(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

4.3.9 TFL 18 - Slocan

TFL 18 - Slocan
SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity				**Benefits**							**Investment Recommendations**						
Unit	**SSFM Activity**	**TITLE**	**Location / Description**	Priority OR Lead	**Ranked Score** (a)	**Type** (b)	**Status** (c)	**Plan** (d)	**Scope** (e)	**End Date** (f)	**Funding** (g)	**Previous Invest** 2001/02	**Current** **2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
		Priority 1																
T18	GY 1	Balsam Site Index	TFL 18	1	27	N	E	T	L	2002	frbc	$35,000	$90,000	$0	$0	$0	$0	$90,000
T18	GY 2	GY Strategy Develop.	TFL 18	1	24	U	N	T	L	2003	frbc	$0	$30,000	$80,000	$0	$0	$0	$110,000
T18	TSM 1	Level C & D	TFL 18	1	20	N	N	T,L	L	2003	frbc	$0	$100,000	$180,000	$0	$0	$0	$280,000
T18	WWH 1	Wildlife Inventory*	TFL 18	1	25	N	E	T,N,L	MU	2002	frbc	$60,780	$30,000	$0	$0	$0	$0	$30,000
												SubT	$250,000	$260,000	$0	$0	$0	$510,000
		Priority 2																
T18	VA 1	TFL 18 Lakes - Visuals	TFL 18	2	32	N	N	T,N,L	MU	2002	frbc	$0	$30,000	$0	$0	$0	$0	$30,000
T18	VRI 1	Phase 1 & 2 for TFL	TFL 18	2	20	N	N	T,N,L	MU	2003	frbc	$0	$30,000	$80,000	$0	$0	$0	$110,000
												SubT	$60,000	$80,000	$0	$0	$0	$140,000
													$310,000	$340,000	$0	$0	$0	$650,000

(a) Ranked Score - Enter the total of the TSR, NTRS, LRMP RIC, Timing from Box 12's on template 3

(b) Type - E = (Organizational) U = (Tools, Applications, Extension) N = (inventories or research)

(c) & (d) Status - N = new, E = Existing …. Plan - T = TSR, N = NTRS, L = LRMP (or specify)

(e) Scope - P = Province, R = Region, MU = Management, L = Licensee

(f) End Date - For multi-year activities, enter the year to be completed.

(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

- WWH may finish in 2001/02

4.3.10 TFL 33 – Federated Co-op

Additional Issue and strategy information from TFL 33.

Key TFL 33 SSFM Issues

SSFM Issue: # 1.0	**Title: Improve Resource Management information**

Description of the SSFM Issue:
On TFL 33, the forest cover information, in particular site indices, is considered out of date. Management decisions must be made with a conservative approach to compensate for possible errors in the data. A lack of understanding of forest growth rates and potential site indices also contributes to the conservative approach. By updating the information database, better-informed decision can be made and will more accurately reflect the timber volumes available for harvest. The Chief Forester makes a determination as to the amount of timber available for harvest in each timber supply area every five years and would use the most accurate information in his considerations.

Sustainability Relationships: (timber, non-timber, ecological, etc)
Timber: Knowing what is presently growing on the forest landbase and understanding the growth rates and potential site productivity will allow for more accurate determinations for the allowable annual cut thus helping to ensure long term stability of the timber resource.

Non-Timber: Accurate vegetation information and growth rates will benefit wildlife habitat management thus helping to ensure adequate habitat and forage is maintained on the forest land base.

Ecological: Accurate vegetation information will assist in meeting old growth management objectives.

Visual management: Accurate vegetation information and knowing growth rates is key in managing the visuals on TFL 33. This same information is utilized in the development of forest development plans.

Relationship to Strategic Resource Plans and Decisions:

Timber Supply Reviews: Reliable Vegetation Inventories and Ecosystem mapping linked to accurate measures of Site Index will provide the key foundation information upon which the Chief Forester may make informed AAC determinations for TFL 33. The VRI provides information for setting short term harvest rates while maintaining sustainability over the long term. Current TSR determination process considers the lack or absence of realistically site index by applying downward pressure on the AAC to account for the process uncertainty.
Non-timber Resource Strategies: Reliable Ecosystem inventories at a strategic level will be used for managing wildlife habitat and forage areas, OGMAs, Biodiversity, Visual Management and water quantity and quality.
LRMPs: Reliable Vegetation mapping provides the basic tools upon which specific strategies identified in the LRMP can be managed for wildlife habitat and forage, biodiversity and water quantity and quality.

Comments:
Documenting the growth rates of tree species and having accurate site indices determined would greatly assist the Chief Forester in determining a sustainable allowable annual cut. The Chief Forester stated in his rationale for TFL 33:
The licensee for TFL 33 has not conducted any localized site index studies for any species, but acknowledges in Management Plan Number 8 that site index assignments on the TFL require further review.
Given that TFL 33 includes highly productive forest in the ICH Biogeoclimatic zone, I anticipate that any localized information that can be obtained will indicate that site productivity is underestimated, which could serve to increase or stabilize timber supply. I encourage the licensee to obtain better site productivity information for the next timber supply review, such that any data can be incorporated into future analyses.

Template 2
Strategies to Address SSFM Issues

SSFM Issue: # 1.2	**Title: Improve Resource Management information**

Strategy to Address the Issue:
Improving the Forest Cover Vegetative information and gaining a better understanding of forest growth rates and site productivity is key to improving resource management information. Reliable ecosystem mapping made possible through the innovative and cost effective implementation of Terrain Ecosystem Mapping or Predictive Ecosystem Mapping linked to Site Index Biological Ecological Classification (SIBEC) will provide useful inputs into the future TSR analysis for the rate of growth and yield for regenerated stands. Accurate inputs of Growth and Yield measured in the form of Site Index is one of three conditions to be evaluated in determining the long term harvest levels through a Timber Supply Review process.

Status of Existing Knowledge: (completed & ongoing)
There exists a basic Biological Ecological Classification inventory at a scale of 1:250,000 of the ecosystems on TFL 33. The TFL inventory was created by the MOF at the same time as the surrounding TSA lands. Projects have been proposed for the surrounding TSA lands.

Required Activities & Dependencies to Implement the Strategy:
The Regional BEC refinement process is scheduled to commence in the Okanagan having completed all other TSAs in the Region. Currently, the Regional Ecologist is focussing on completion of the dry belt Interior Douglas Fir and Ponderosa Pine Ecosystems by building on existing completed BEC zones in the adjoining Merritt TSA. Completion of BEC refinement in the Wet Belt ESSF and ICH is scheduled there after. Information within the Kamloops Region and adjoining Arrow TSA is available through extension to build knowledge basis of both the dry belt and wet belt ecosystem.

Acquisition of 1:30,000 softcopy photography is required for both PEM and VRI to provide current condition of the forested landbase. This photography is being carried out under a separate agreement and activity. Additional coverage of 1:15000 photos is recommended for the initial Bioterrain mapping. Upon availability of the softcopy image DIAP, Bioterrain and VRI mapping can be completed.

A Bioterrain inventory linking the static geographic landbase covered with dynamic vegetative seral stages is required to monitor changes to the ecosystems over time. TEM or a less expensive TEM or PEM offers a cost effective process for updating the Predictive Ecosystem Mapping when an updated inventory input layer is available to be included in the modelling / mapping process.

Conditions to Resolve Issue and Achieve Sustainability:
Observations and reliable data for the prediction of current inventory and its associated growth & yield of stands provide the basis and foundation of a monitoring program to measure the growth and yield of the managed forest and ultimately the Long Term Harvest Level (LTHL). An accurate estimate of the LTHL provides the Chief Forester with the confidence in setting both the current and long term Allowable Annual Cut.

TFL 33 - Federated Co-Op
SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity				**Benefits**							**Investment Recommendations**						
Unit	**SSFM Activity**	**TITLE**	**Location / Description**	Priority OR Lead	**Ranked Score** (a)	**Type** (b)	**Status** (c)	**Plan** (d)	**Scope** (e)	**End Date** (f)	**Funding** (g)	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
		Priority 1																
T33	GY 1	TEM for SIBEC	TFL 33	1	31	N	E	T	L	2004	frbc	$53,000	$53,000	$53,000	$53,000	$0	$0	$159,000
T33												$0	$0	$0	$0	$0	$0	$0
T33												$0	$0	$0	$0	$0	$0	$0
												SubT	$53,000	$53,000	$53,000	$0	$0	$159,000
		Priority 2																
													$53,000	$53,000	$53,000	$0	$0	$159,000

(a) Ranked Score - Enter the total of the TSR, NTRS, LRMP RIC, Timing from Box 12's on template 3

(b) Type - E = (Organizational) U = (Tools, Applications, Extension) N = (inventories or research)

(c) & (d) Status - N = new, E = Existing …. Plan - T = TSR, N = NTRS, L = LRMP (or specify)

(e) Scope - P = Province, R = Region, MU = Management, L = Licensee

(f) End Date - For multi-year activities, enter the year to be completed.

(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

4.3.11 TFL 35 - Weyerhaeuser

TFL 35 - Weyerhaeuser
SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity					Benefits						Investment Recommendations						
Unit	SSFM Activity #	TITLE	Location / Description	Priority OR Lead	Ranked Score (a)	Type (b)	Status (c)	Plan (d)	Scope (e)	End Date (f)	Funding (g)	Previous Invest 2001/02	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	Five Year Total 2002/07
		Priority 1																
T35	FFH 1	Fish Studies	FHAT20	W	28	U	E	N	L	2007	frbc	$25,000	$25,000	$25,000	$25,000	$25,000	$25,000	$125,000
T35	GY 1	Mid-Rotation GY	Surveys	W	18	N	N	T	L	2007	frbc	$0	$45,000	$70,500	$70,500	$70,500	$70,500	$327,000
T35	GY 2	GY Monitoring	TFL 35	W	23	U	E	T	L	2003	frbc	$133,000	$25,000	$0	$0	$0	$0	$25,000
T35	GY 3	OAFs for Pests	TFL 35	W	21	U	N	T	L	2007	frbc	$0	$30,000	$30,000	$30,000	$30,000	$30,000	$150,000
T35	WWH 1	Wildlife Interpretation	TFL 35	W	26	U	N	N.L	MU	2007	frbc	$0	$40,000	$40,000	$40,000	$40,000	$40,000	$200,000
												SubT	$165,000	$165,500	$165,500	$165,500	$165,500	$827,000
		Priority 2																
		none																

$158,000 $165,000 $165,500 $165,500 $165,500 $165,500 $827,000

(a) Ranked Score - Enter the total of the TSR, NTRS, LRMP RIC, Timing from Box 12's on template 3

(b) Type - E = (Organizational) U = (Tools, Applications, Extension) N = (inventories or research)

(c) & (d) Status - N = new, E = Existing .... Plan - T = TSR, N = NTRS, L = LRMP (or specify)

(e) Scope - P = Province, R = Region, MU = Management, L = Licensee

(f) End Date - For multi-year activities, enter the year to be completed.

(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

4.3.12 TFL 49 - Riverside

TFL 49 Template 4
SSFM Activity Summary Table

1	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Activity					Benefits						Investment Recommendations						
Unit	SSFM Activity	TITLE	Location / Description	Priority OR Lead	Ranked Score (a)	Type (b)	Status (c)	Plan (d)	Scope (e)	End Date (f)	Funding (g)	Previous Invest 2001/02	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	Five Year Total 2002/07
		Priority 1																
T49	FFH 1	Fish Habitat Inventory	Lambly Crk	1	31	N	E	N,L	MU	2007+	frbc	$75,000	$40,000	$35,000	$25,000	$25,000	$50,000	$175,000
T49	FFH 2	Fish Inventory	Lambly Crk	1	31	N	E	N,L	MU	2007+	frbc	$100,000	$70,000	$60,000	$60,000	$60,000	$60,000	$310,000
T49	IT 1	Analytical Model	TFL	1	31	U	E	T,N,L	MU	2002	frbc	$160,000	$120,000	$0	$0	$0	$0	$120,000
T49	IT 2	Silviculture Model	TFL	1	33	U	E	T	MU	2007+	frbc	$60,000	$30,000	$20,000	$20,000	$20,000	$20,000	$110,000
T49	RP 1	Riparian Mgt Pilot	TFL	1	31	U	E	T,N,L	MU	2007+	frbc	$80,000	$40,000	$30,000	$30,000	$30,000	$30,000	$160,000
T49	TSM 1	Terrain Stability Maps	Shorts Crk	1	19	N	E	T	MU	2003	frbc	$0	$130,000	$70,000	0	0	$0	$200,000
T49	VRI 1	Key Vegetation Values	TFL	1	31	N	E	T,N,L	MU	2007+	frbc	$60,000	$40,000	$20,000	$10,000	$10,000	$10,000	$90,000
T49	WWH 1	Wildlife Inventory	TFL	1	31	N	E	T,N,L	MU	2007+	frbc	$60,000	$50,000	$40,000	$35,000	$35,000	$35,000	$195,000
T49	OFF	Pilot Monitoring	TFL	1	31	E	E	X	MU	2007+	frbc	$75,000	$30,000	$80,000	$60,000	$60,000	$60,000	$290,000
												SubT	$550,000	$355,000	$240,000	$240,000	$265,000	$1,650,000
																		$0
																		$0
																		$0
																		$0
												$670,000	$550,000	$355,000	$240,000	$240,000	$265,000	$1,650,000

(a) Ranked Score - Enter the total of the TSR, NTRS, LRMP RIC, Timing from Box 12's on template 3
(b) Type - E = (Organizational) U = (Tools, Applications, Extension) N = (inventories or research)
(c) & (d) Status - N = new, E = Existing ..... Plan - T = TSR, N = NTRS, L = LRMP (or specify)
(e) Scope - P = Province, R = Region, MU = Management, L = Licensee
(f) End Date - For multi-year activities, enter the year to be completed.
(g) Funding - FRBC or "S" for shared or other funding sources and explain in template 3.

4.3.13 Thompson Okanagan Summary

The summary of is presented in the following tables. The following provides the comparison of actual submission by management unit with the ground rule targets. The next two tables provide the pertinent data for each regional issue by priority.

Comparison of Ground Rules to Actuals

Management Uni	Ground Rule Target	Target @ 90%	Target @ 130%	Actual Priority 1	Actual Priority 2	Actual P1+P2	Variance Priority 1	Variance Total
Kamloops Regio	$324,000	$291,600	$421,200	$460,000	$70,000	$530,000	158%	126%
Kamloops TSA	$1,738,800	$1,564,920	$2,260,440	$1,628,460	$502,370	$2,130,830	104%	94%
Lillooet TSA	$360,000	$324,000	$468,000	$345,000	$123,000	$468,000	106%	100%
Merritt TSA	$1,003,500	$903,150	$1,304,550	$965,825	$123,500	$1,089,325	107%	84%
Okanagan TSA	$1,749,600	$1,574,640	$2,274,480	$1,624,000	$699,967	$2,323,967	103%	102%
Interfor IFPA	$579,600	$521,640	$753,480	$737,000	$115,000	$852,000	141%	113%
Merritt IFPA	$1,674,000	$1,506,600	$2,176,200	$3,560,000	$0	$3,560,000	236%	164%
TFL 15	$69,120	$62,208	$89,856	$105,000	$20,000	$125,000	169%	139%
TFL 18	$211,680	$190,512	$275,184	$250,000	$60,000	$310,000	131%	113%
TFL 33	$19,080	$17,172	$24,804	$53,000	$0	$53,000	309%	214%
TFL 35	$148,320	$133,488	$192,816	$165,000	$0	$165,000	124%	86%
TFL 49	$314,640	$283,176	$409,032	$550,000	$0	$550,000	194%	134%
	$8,192,340	$7,373,106	$10,650,042	$10,443,285	$1,713,837	$12,157,122	142%	114%

Kamloops Region
SSFM Activity Summary Table

Number of MU's	Issue Code	**Issue Title**	Number of Projects	Priority	Average Ranking	**Previous Invest** 2001/02	**Current 2002/03**	**Projected** 2003/04	**Projected** 2004/05	**Projected** 2005/06	**Projected** 2006/07	**Five Year Total** 2002/07
	Priority 1											
4	CH	Cultural Heritage	10	1	NA	$657,750	$822,500	$292,500	$257,500	$247,500	$180,000	$1,800,000
7	FFH	Fish & Fish Habitat	23	1	29.9	$919,000	$1,107,270	$652,470	$710,000	$535,000	$360,000	$3,364,740
3	FH	Forest Health	5	1	20.0	$80,000	$185,000	$80,000	$80,000	$80,000	$80,000	$505,000
8	GY	Growth & Yield	19	1	25.3	$484,000	$1,105,000	$271,500	$259,500	$109,000	$255,500	$2,000,500
4	IT	Inventory Tools	10	1	31.2	$713,000	$760,000	$105,000	$105,000	$80,000	$80,000	$1,130,000
6	RP	Resource Planning	22	1	26.0	$516,000	$1,025,000	$105,000	$105,000	$45,000	$30,000	$1,310,000
1	ST	Stream Temperature	4	1	0.0	$229,500	$140,855	$88,000	$36,000	$30,000	$0	$294,855
6	TEM	Terrestrial Ecosystems	10	1	33.8	$1,385,200	$1,242,000	$530,000	$105,000	$0	$0	$1,877,000
3	TSM	Terrain Stability	3	1	19.5	$17,000	$270,000	$290,000	$40,000	$40,000	$40,000	$680,000
3	VA	Visual Aesthetics	5	1	35.0	$36,520	$74,500	$52,000	$42,000	$5,000	$8,000	$181,500
7	VRI	Vegetation Resources	11	1	31.3	$458,000	$1,030,000	$405,000	$240,000	$10,000	$10,000	$1,695,000
4	WQ	Water Quality	16	1	28.5	$210,850	$369,160	$222,500	$151,800	$144,000	$79,500	$966,960
8	WWH	Wildlife & Habitat	22	1	29.2	$792,280	$1,342,000	$725,000	$650,000	$520,000	$475,000	$3,712,000
0	WY	Water Yield	0	1	0.0	$0	$0	$0	$0	$0	$0	$0
2	OFF	Off Strategy	12	1	NA	$567,000	$970,000	$80,000	$60,000	$60,000	$60,000	$1,230,000
			172		28.2	$7,066,100	$10,443,285	$3,898,970	$2,841,800	$1,905,500	$1,658,000	$20,747,555
	Priority 2											
5	CH	Cultural Heritage	7	2	NA	$175,000	$119,000	$145,000	$205,000	$130,000	$75,000	$674,000
2	FFH	Fish & Fish Habitat	11	2	24.9	$200,000	$479,467	$265,000	$115,000	$35,000	$35,000	$929,467
1	FH	Forest Health	1	2	0.0	$0	$20,000	$0	$0	$0	$0	$20,000
2	GY	Growth & Yield	2	2	0.0	$0	$45,000	$5,000	$5,000	$5,000	$0	$60,000
0	IT	Inventory Tools	0	2	0.0	$0	$0	$0	$0	$0	$0	$0
3	RP	Resource Planning	8	2	23.3	$205,000	$330,000	$190,000	$172,825	$122,825	$75,000	$890,650
0	ST	Stream Temperatu	0	2	0.0	$0	$0	$0	$0	$0	$0	$0
1	TEM	Terrestrial Ecosystems	1	2	40.0	$0	$45,000	$0	$0	$0	$0	$45,000
1	TSM	Terrain Stability	1	2	29.0	$0	$27,870	$27,870	$0	$0	$0	$55,740
3	VA	Visual Aesthetics	5	2	26.8	$0	$116,000	$55,500	$55,500	$55,500	$52,000	$334,500
1	VRI	Vegetation Resources	1	2	20.0	$0	$30,000	$80,000	$0	$0	$0	$110,000
3	WQ	Water Quality	12	2	28.0	$284,924	$167,000	$57,000	$39,500	$30,000	$22,000	$315,500
4	WWH	Wildlife & Habitat	8	2	25.6	$147,500	$207,000	$217,355	$82,000	$72,000	$87,000	$665,355
2	WY	Water Yield	2	2	30.0	$0	$127,500	$107,500	$107,500	$107,500	$100,000	$550,000
0	OFF	Off Strategy	0	2	NA	$0	$0	$0	$0	$0	$0	$0
			59		27.5	$1,012,424	$1,713,837	$1,150,225	$782,325	$557,825	$446,000	$4,650,212

Kamloops Region
SSFM Activity Summary Table

Number of MU's	Issue Code	Issue Title	Number of Projects	Priority	Average Ranking	Previous Invest 2001/02	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	Five Year Total 2002/07
		Priority 3										
1	CH	Cultural Heritage	4	3	NA	$0	$150,000	$0	$0	$0	$0	$150,000
2	FFH	Fish & Fish Habitat	4	3	24.0	$0	$20,000	$20,000	$100,000	$150,000	$190,000	$480,000
1	FH	Forest Health	2	3	13.0	$20,000	$18,000	$10,000	$10,000	$10,000	$0	$48,000
1	GY	Growth & Yield	4	3	21.8	$0	$77,500	$332,500	$332,500	$212,500	$152,500	$1,107,500
0	IT	Inventory Tools	0	3	0.0	$0	$0	$0	$0	$0	$0	$0
1	RP	Resource Planning	1	3	4.0	$36,000	$45,000	$40,000	$50,000	$0	$0	$135,000
0	ST	Stream Temperature	0	3	0.0	$0	$0	$0	$0	$0	$0	$0
0	TEM	Terrestrial Ecosystems	0	3	0.0	$0	$0	$0	$0	$0	$0	$0
1	TSM	Terrain Stability	8	3	18.6	$210,851	$468,560	$418,560	$308,560	$258,560	$190,560	$1,644,800
1	VA	Visual Aesthetics	4	3	19.3	$40,000	$0	$50,000	$60,000	$30,000	$37,000	$177,000
0	VRI	Vegetation Resources	0	3	0.0	$0	$0	$0	$0	$0	$0	$0
2	WQ	Water Quality	5	3	22.8	$0	$52,500	$66,500	$70,000	$41,500	$17,500	$248,000
2	WWH	Wildlife & Habitat	13	3	19.8	$40,000	$129,500	$107,500	$147,500	$229,500	$182,500	$796,500
1	WY	Water Yield	1	3	23.0	$0	$120,000	$100,000	$100,000	$100,000	$100,000	$520,000
0	OFF	Off Strategy	0	3	NA	$0	$0	$0	$0	$0	$0	$0
			46		18.5	$346,851	$1,081,060	$1,145,060	$1,178,560	$1,032,060	$870,060	$5,306,800
		ALL Priorities										
12	CH	Cultural Heritage	21	ALL	NA	$832,750	$1,091,500	$437,500	$462,500	$377,500	$255,000	$2,624,000
12	FFH	Fish & Fish Habitat	38	ALL	27.0	$1,119,000	$1,606,737	$937,470	$925,000	$720,000	$585,000	$4,774,207
12	FH	Forest Health	8	ALL	21.5	$100,000	$223,000	$90,000	$90,000	$90,000	$80,000	$573,000
12	GY	Growth & Yield	25	ALL	24.3	$484,000	$1,227,500	$609,000	$597,000	$326,500	$408,000	$3,168,000
12	IT	Inventory Tools	10	ALL	31.2	$713,000	$760,000	$105,000	$105,000	$80,000	$80,000	$1,130,000
12	RP	Resource Planning	31	ALL	25.4	$757,000	$1,400,000	$335,000	$327,825	$167,825	$105,000	$2,335,650
12	ST	Stream Temperature	4	ALL	0.0	$229,500	$140,855	$88,000	$36,000	$30,000	$0	$294,855
12	TEM	Terrestrial Ecosystems	11	ALL	34.7	$1,385,200	$1,287,000	$530,000	$105,000	$0	$0	$1,922,000
12	TSM	Terrain Stability	12	ALL	19.7	$227,851	$766,430	$736,430	$348,560	$298,560	$230,560	$2,380,540
12	VA	Visual Aesthetics	14	ALL	26.3	$76,520	$190,500	$157,500	$157,500	$90,500	$97,000	$693,000
12	VRI	Vegetation Resources	12	ALL	29.7	$458,000	$1,060,000	$485,000	$240,000	$10,000	$10,000	$1,805,000
12	WQ	Water Quality	33	ALL	27.3	$495,774	$588,660	$346,000	$261,300	$215,500	$119,000	$1,530,460
12	WWH	Wildlife & Habitat	43	ALL	24.7	$979,780	$1,678,500	$1,049,855	$879,500	$821,500	$744,500	$5,173,855
12	WY	Water Yield	3	ALL	26.5	$0	$247,500	$207,500	$207,500	$207,500	$200,000	$1,070,000
12	OFF	Off Strategy	12	ALL	NA	$567,000	$970,000	$80,000	$60,000	$60,000	$60,000	$1,230,000
			277		25.9	$8,425,375	$13,238,182	$6,194,255	$4,802,685	$3,495,385	$2,974,060	$30,704,567

4.3.14 SSFM Referral List

Contacts and Referrals for SSFM Component of RMP

Management Unit	Stakeholders Notified of SSFM Draft Plan
Kamloops Region	All MYA holders, IFPA holders, MOF, MSRM, FRBC
Kamloops TSA	Unknown
Lillooet	Chief and Council - Alkali Lake Indian Band
Lillooet	Chief and Council - Bonaparte Indian Band
Lillooet	Chief and Council – Bridge River Indian Band
Lillooet	Chief and Council – Canoe Creek Indian Band
Lillooet	Chief and Council – Cayoose Creek Indian Band
Lillooet	Chief and Council – Cook's Ferry Indian Band
Lillooet	Chief and Council – Mount Currie Indian Band
Lillooet	Chief and Council - Fountain Indian Band
Lillooet	Chief and Council – High Bar Indian Band
Lillooet	Chief and Council – Kanaka Bar Indian Band
Lillooet	Chief and Council - Lillooet Indian Band
Lillooet	Chief and Council – Lytton First Nation
Lillooet	Chief and Council - Nooaitch Indian Band (Merritt)
Lillooet	Chief and Council – Nicola Tribal Association
Lillooet	Chief and Council - Nicoamen Indian Band
Lillooet	Chief and Council – N'Quatqua Indian Band
Lillooet	Chief and Council - Alkali Lake Indian Band
Lillooet	Chief and Council – Oregon Jack Indian Band
Lillooet	Chief and Council - Pavilion Indian Band
Lillooet	Chief and Council – Seton Lake Indian Band
Lillooet	Chief and Council - Siska Indian Band
Lillooet	Chief and Council - Skuppah Indian Band
Lillooet	Chief and Council - Toosey Indian Band
Lillooet	Chief and Council – Whispering Pines Indian Band
Lillooet	Nlaka'pamux Nation Tribal Council
Lillooet	Lillooet Tribal Council
Lillooet	Fraser Canyon Tribal Adminastration
Lillooet	Chief and Council - Stone Indian Band
Lillooet	Ainsworth Lumber Co. Ltd.
Lillooet	Teal Cedar Products Ltd.
Merritt TSA	Nicola Tribal Association
Merritt TSA	Upper Nicola Indian Band
Merritt TSA	Upper Similkameen Indian Band
Merritt TSA	Riverside Forest Products
Merritt TSA	Tolko Industries Ltd.
Merritt TSA	Aspen Planers
Merritt TSA	Ardew Wood Products
Merritt TSA	Weyerhaeuser Company
Merritt TSA	Kamloops and District WL Association
OK TSA	Westbank First Nation
OK TSA	Penticton Indian Band
OK TSA	Okanagan Indian Band
OK TSA	Lower Similkameen Indian Band
OK TSA	Upper Nicola Indian Band
OK TSA	En'Owkin Centre

Management Unit	Stakeholders Notified of SSFM Draft Plan
OK TSA	Weyerhaueser Company Ltd.
OK TSA	Gorman Bro's Lumber Ltd.
OK TSA	Riverside Forest Products Ltd.
OK TSA	Does not include Okanagan IFPA Referrals and Contacts
Interfor IFPA	No Referrals
Merritt IFPA	No Referrals
TFL 15	Through meetings with stakeholders but no formal referrals.
TFL 18	No Referrals
TFL 33	No Referrals
TFL 35	Through meetings with stakeholders but no formal referrals.
TFL 49	Unknown?

Appendix SSFM-1

Strengthening Sustainable Forest Management (SSFM)

Thompson Okanagan FRBC Region
Resource Management Plan

Appendix SSFM-1

Following is Appendix 1 of the Strengthening Sustainable Forest Management (SSFM) component of the Resource Management Plan (RMP) in the Thompson Okanagan FRBC region. Each management unit has prepared a set of recommendations consistent with the provincial guidelines and local ground rules. These recommendations were made available for review to interested stakeholders in an attempt to solicit improvements to the planned activities. Following are the primary contacts for each management unit and can provide clarification to the contents as necessary.

Location	Name	Phone	E-Mail
Kamloops Region	Ron Newman	828-4164	Ron.Newman@gems5.gov.bc.ca
Kamloops TSA			
Clearwater	Bill Lougheed	587-3699	Bill.Lougheed@gems4.gov.bc.ca
Kamloops	Ken Chantler	371-6532	Ken.Chantler@gems7.gov.bc.ca
Lillooet TSA	Ray Morello	256-1200	Ray.Morello@gems7.gov.bc.ca
Merritt TSA	Rich Hodson	378-8470	Rich.Hodson@gems1.gov.bc.ca
Okanagan TSA			
Salmon Arm	Linda Sapinsky	833-3431	Linda.Sapinsky@gems7.gov.bc.ca
Vernon	Ted McRae	558-1718	Ted.McRae@gems7.gov.bc.ca
Penticton	Laverne Cormier	490-2267	Laverne.Cormier@gems9.gov.bc.ca
TFL 15	Nick Kleyn	546-8711	nick.kleyn@weyerhaeuser.com
TFL 18	Rowena Bryan	676-9518	robryan@slocan-vavenby.com
TFL 33	Jeff Lipsett	833-1230	lipsett@fclcanoe.com
TFL 35	Nick Kleyn	546-8711	nick.kleyn@weyerhaeuser.com
TFL 49	Gerry McDougal	546-2357	pfc@cablelan.net
Interfor IFPA	Larry Henry		lhenry@nicolavalley.com
Merritt IFPA	Alan Thorne	679-3234	al_thorne@interfor.com

Appendix 1
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This appendix is intended to be a cross-reference to the activities described in the SSFM Activity Summary Table for each management unit. While the summary table provides a quick overview of the recommended activities, this appendix is designed to provide the details regarding any specific recommendation contained in the summary.

For each recommended activity in the summary tables, a template has been completed providing the details regarding delivery and the reasons for being recommended. These templates are presented by management unit in the same order as in the SSFM document. The activities are then presented in alphabetical and numerical sequence by "Issue" title. As a reminder, the issue titles are:

Issue Title	Topic	Issue Title	Topic
CH	Cultural Heritage	TEM	Terrestrial Ecosystems
FFH	Fish & Fish Habitat	TSM	Terrain Stability
FH	Forest Health	VA	Visual Aesthetics
GY	Growth & Yield	VRI	Vegetation Inventories
IT	Inventory Tools	WQ	Water Quality
RP	Resource Planning	WY	Water Yield
ST	Stream Temperature	WWF	Wildlife & Habitat

To cross-reference a recommendation from the summary tables, go the correct management unit in this appendix, then scroll through the alphabetically sorted templates to the correct issue title. For example, the templates for Growth & Yield (G) will fall between Forest Health (F) and Inventory Tools (I) in the same management unit. The templates are then presented sequentially by their identification number. For example, a GY3 would fall between a GY2 and a GY4.

A1.1 Kamloops Region

Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: Culture and Heritage Pilot**	**Activity #: RCH1**

Description of the Activity: To pilot a means to collect archaeological, trail and traditional use information on a specified area

Status:New	**"New" OR Years in Progress?:** New	**Priority Comments:** This is a high priority for land use planning

Location: Kamloops forest region (pilot area yet to be selected)	**Management Unit**: RKA

Potential Lead Proponent: A tribal council in the Kamloops Forest Region

Objectives: To develop an inventory method that avoids the cost inefficiencies and duplication errors of multiple survey entries to a specific area. A synergistic value will be gained from a comprehensive archaeological and traditional use survey of a specific land area. This new approach will have to be lead by a First Nation who is innovative.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Year 1: Develop First Nations partners and survey methodology, and select a pilot area	March 31, 2003
Year 2: Conduct literature review and start field work	March 31, 2004
Year 3: Field work	March 31, 2005
Year 4: Mapping and reporting	March 31, 2006

Benefits & Ranking Criteria:
TSR: Provide comprehensive overview for TSR
LRMP: Provide base data for LRMP
RIC: Pilot of new inventory method

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total = NA**

Rationale for Ranking: High need for information and a cost effective one time survey.

Additional Benefits:
Information can be used for land use planning, timber supply review and future treaty negotiations.

Partnerships: First Nations to be named.

Comments: The partners and pilot area will be selected in year one of the pilot. Candidate partners will be approached by a project coordinator.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs**	$25,0000	50,000	100,000	$25,000	$0,000	$200,000
Project	**Units**	Project	Project	Project	Project	Project	Project
	Goals	1 Pilot	1 Pilot	1 Pilot	1 Pilot		

Kamloops Region - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FH	**Title:** Regional FH Assessment	**Activity #:** RFH1

Description of the Activity: The annual forest health overview flight of the Region to locate, assess and map forest health problems.

Status:	"New" OR Years in Progress?: Ongoing Annual Need	**Priority Comments:** An ongoing project with continuing annual needs.

Location: Forested area of entire Region	**Management Unit:** All

Potential Lead Proponent: MOF Kamloops Regional Office

Objectives: Annual detection, assessment and mapping of forest health problems in immature stands for incremental treatment, operational treatment, loss factors and other strategic uses.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**
Ongoing flights, assessments and mapping each year.

Benefits & Ranking Criteria: (from plan drivers)

TSR = 7	NTRS = 2	LRMP = 4	RIC = 2	Timing = 5	Total = 20

Rationale for Ranking:

Timber Supply Review: Chief Forest often requests additional info on forest health, loss factors and net downs. Although the overview flight provides this information on an annual basis, it does not resolve the need to continue this work

Non-Timber Resource Strategies: Provides some info pertinent to NTRS.

LRMP: Provides loss factor and net information and health often stated as a concern.

Other: Reliable ministry standards for all components of the work and needed each year.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$80,000	**Costs ($$)**	$70,000	$80,000	$80,000	$80,000	$80,000	$390,000
ha	**Units**	ha	ha	ha	ha	ha	ha
4,215,000	**Goals**	4,215,000	4,215,000	4,215,000	4,215,000	4,215,000	4,215,000

Kamloops Region - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: PSP Remeasurements**	**Activity #: RGY1**

Description of the Activity: Remeasurement of 206 permanent G&Y sample plots in 2002.

Status:	**"New" OR Years in Progress?:** Ongoing 10 Yr Cycle	**Priority Comments:** Very important for most predictive aspects of strategic planning

Location: Throughout Kamloops Region	**Management Unit:** All

Potential Lead Proponent: MOF Kamloops Regional Office

Objectives: There are over one thousand (1000) PSP's within the Kamloops Region that are maintained on a ten-year remeasurement cycle. Most of these samples have at least three measurements allowing us to track stand dynamics (ingress and egress), stand structure, forest health, wildlife habitat, biogeoclimatic ecosystem (BEC) parameters and productivity - BEC (SIBEC) relationships. The allowable cut determination documents for the management units have identified a number of gaps in our knowledge base for GY. The continued remeasurement of PSP's provide information essential for the calibration and validation of the GY model predictions. External issues of certification for sustainability and monitoring of predictions have also created demand for continuous GY information to reflect the current land base.

Tasks, Deliverables, Targets & Milestones:
The PSP remeasurement cycle should be maintained to ensure the data requirements are met so support TSR and LRMP updates. The numbers of PSPs to remeasure are shown by year in the Recommended Investments table below.

Target Dates:
Annually as shown below

Benefits & Ranking Criteria: (from plan drivers)

TSR = 9	**NTRS = 5**	**LRMP = 7**	**RIC = 5**	**Timing = 5**	**Total = 31**

Rationale for Ranking:

Timber Supply Review: The lack of GY inventories leads to risk and uncertainty around harvest level determinations (AAC) and the planning of harvesting activities. GY data provides a foundation to define the analysis units used to model the timber supply as well as the yield tables that represent the consequences of management unit decisions. TSR requires the capacity to link biogeoclimatic ecosystem classification (BEC) linked productivity to predict second growth potential. TSR requires resource information to define resource and habitat values

Non-Timber Resource Strategies: GY inventories collect data useful to examine the interaction of spatial planning and non-timber resources. GY will help use to conserve biodiversity and maintain other resource values by monitoring forest conditions over time. Half of the Site Index Biogeoclimatic Ecosystem Classification (SIBEC) database is derived from PSP's and the balance from other GY studies. Forest health, wildlife tree information and stand structure data support habitat and other models. PSP's provide a foundation of BEC linkages to site productivity and constitute half of the calibration data. The BEC data also serves to provide information for terrestrial ecosystem mapping (TEM)or predictive ecosystem mapping (PEM) as well as defining other resource values such as habitat

LRMP: Land use plans require growth and yield predictive models that represent local conditions as well as supporting higher level plans. The lack or gaps in the GY inventories leads to risk and uncertainty around the process and its subsequent approval as a higher level plan.

Other: An ongoing project with reliable agency standards.

SSFM Issue: GY	**Title: PSP Remeasurements**	**Activity #: RGY1**

Additional Benefits: Beneficial to all types of strategic planning that rely on predictions of timber growth or volume yields over time. Even the NTRS modelling and predictions often rely on information on how the tree cover grows.

Partnerships: None expected for this activity

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$138,000	**Costs ($$)**	$230,000	$38,000	$106,000	$8,500	$155,000	$537,500
PSPs	**Units**	PSPs	PSPs	PSPs	PSPs	PSPs	ha
121	**Goals**	206	32	88	7	129	462

Kamloops Region - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title:** GY PSP Establishment	**Activity #:** RGY2

Description of the Activity: Establishment of growth & yield PSPs consistent with the sampling matrix.

Status:	"New" OR Years in Progress?: New	**Priority Comments**: Data improvement needed for all aspects of predictive planning.

Location: Kamloops Region	**Management Unit**: ALL

Potential Lead Proponent: MOF - Kamloops Regional Office

Objectives: Although there are over one thousand (1000) PSP's within the Kamloops Region there are identified gaps in our sample database. In addition we lose several samples per year to catastrophic damage and disturbances. These samples allow us to track stand dynamics (ingress and egress), stand structure, forest health, wildlife habitat, biogeoclimatic ecosystem (BEC) parameters and productivity - BEC (SIBEC) relationships. The allowable cut determination documents for the management units have identified a number of gaps in our knowledge base for GY. The continued establishment of PSP's will provide information essential for the calibration and validation of the GY model predictions. External issues of certification for sustainability and monitoring of predictions have also created demand for continuous GY information to reflect the current land base.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
The PSP establishment cycle should be such that more PSP are established in low remeasurement years and fewer in high remeasurement years to bring remeasurements into consistent levels.	2003 – 25 PSPs 2004 – 25 PSPs 2005 – 60 PSPs

Benefits & Ranking Criteria: (from plan drivers)

TSR = 6	**NTRS = 2**	**LRMP = 4**	**RIC = 5**	**Timing = 1**	**Total = 18**

Rationale for Ranking:

Timber Supply Review: Follow up work still needed although specific needs are addressed.

Non-Timber Resource Strategies: A known concern for modelling certain aspects of NTRS.

LRMP: Similar to the needs for TSR.

Other: Well established RIC standards but is new work and could be delayed if necessary.

Additional Benefits: Beneficial to all types of strategic planning that rely on predictions of timber growth or volume yields over time. Even the NTRS modelling and predictions often rely on information on how the tree cover grows.

Partnerships: None expected.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$0,000	$30,000	$30,000	$60,000	$0,000	$120,000
PSPs	**Units**	PSPs	PSPs	PSPs	PSPs	PSPs	PSPs
0	**Goals**	0	25	25	50	0	100

Kamloops Region - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: GY Monitoring of TSAs**	**Activity #: RGY3**

Description of the Activity: Implement a GY monitoring program by TSA

Status:	**"New" OR Years in Progress?:** New (4 yr project)	**Priority Comments:**

Location: Each TSA in the Region - Sequentially

Management Unit: ALL

Potential Lead Proponent: MOF - Kamloops Regional Office

Objectives:

The objective of this project is to implement a growth and yield monitoring program for one or more predictions for Kamloops TSA. This program should meet TSA stakeholders business needs and will be compatible with the emerging Ministry of Forests growth and yield Change Monitoring Inventory (currently CMI Version 1.1, January 2001) program. The work plan and sample design phase would be developed in the fiscal year of 2002/2003. The field implementation, analysis, and recommendations would be completed over the course fiscal year 2003/2004. There are three primary business needs for growth and yield monitoring:

- Address uncertainty around growth and yield predictions in Kamloops TSA.
- Support market certification (Forest Stewardship Council and other third party certification programs) by monitoring predictions to demonstrate sustainability and support other forest management requirements required by the certification agencies.
- Support timber supply analysis and forest-level planning by providing information to the Ministry of Forests on the monitoring required to validate predictions used in the analysis.

Tasks, Deliverables, Targets & Milestones:

The work plan would be developed in 2002/2003 and the field sampling analysis and recommendations in 2003/2004.

Target Dates:
2002 – Workplan
2003 – Kam TSA
2004 – Lill TSA

Benefits & Ranking Criteria: (from plan drivers)

TSR = 4	**NTRS = 0**	**LRMP = 4**	**RIC = 5**	**Timing = 3**	**Total = 16**

Rationale for Ranking:

Timber Supply Review: The lack of monitoring of GY predictions will lead to risk and uncertainty around harvest level determinations (AAC) and the planning of harvesting activities. GY data provides a foundation to define the analysis units used to model the timber supply as well as the yield tables that represent the consequences of management unit decisions. TSR requires the capacity to link biogeoclimatic ecosystem classification (BEC) linked productivity to predict second growth potential. TSR requires resource information to define resource and habitat values

Non-Timber Resource Strategies: GY monitoring will collect data to examine the interaction of spatial planning and non-timber resources. Monitoring of GY will help us to conserve biodiversity and maintain other resource values by monitoring forest predictions over time. The BEC data also serves to provide information for terrestrial ecosystem mapping (TEM)or predictive ecosystem mapping (PEM) as well as defining other resource values such as habitat

LRMP: Land use plans require growth and yield predictive models that represent local conditions as well as supporting higher level plans. The lack of monitoring of GY predictions will lead to risk and uncertainty around the process and its subsequent approval as a higher level plan.

Other: An ongoing project with reliable agency standards.

Additional Benefits:

Partnerships:

SSFM Issue: GY	**Title:** GY Monitoring of TSAs	**Activity #:** RGY3

Comments: Goal for year 1 will be a work plan and sample plan. Field sampling in year 2 based upon the work plan and only estimates are provided for this activity report.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$25,000	$125,000	$125,000	$125,000	$125,000	$525,000
ha	**Units**	Workplan	TSA	TSA	TSA	TSA	TSA
	Goals	1	Kamloops 100 plots	Lillooet 100 plots	Okanagan 100 plots	Merritt 100 plots	4 TSAs 400 plots

Kamloops Region - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: Operational Adjust Factors**	**Activity #: RGY4**

Description of the Activity: Sampling to provide more accurate estimates of the OAF1 input values for managed stand yield tables.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location: Each TSA in the Region - Sequentially

Management Unit: ALL

Potential Lead Proponent: MOF - Kamloops Regional Office

Objectives: The management unit OAF1 program may be applied to pure species even-aged managed stands in which ingress is completed. The OAF1 ground based survey will be focused to account for stocking gaps in addition to those already accounted for by the TIPSY yield model.

Tasks, Deliverables, Targets & Milestones:
The work plan would be developed in 2002/2003 and the field sampling analysis and recommendations in 2003/2004. Initially Okan was scheduled first but it appears this is already proceeding under the IFPA.

Target Dates:
2002 – Workplan
2003 – Lill TSA
2004 – Kam TSA

Benefits & Ranking Criteria: (from plan drivers)

TSR = 10	**NTRS = 0**	**LRMP = 4**	**RIC = 5**	**Timing = 3**	**Total = 22**

Rationale for Ranking:

Timber Supply Review: The program is designed to produce a more accurate estimate of the OAF1 input value for managed stand yield tables (TIPSY) for a management unit. A review of TSR found that most analyses assumed an OAF1 of 15%. This results in a substantial reduction in the predicted yield. The OAF1 project should be implemented to determine if OAFs overestimate the stocking gaps. The lack of information on OAF1 adjustments will lead to risk and uncertainty around harvest level determinations (AAC) and the planning of harvesting activities. GY data provides a foundation to define the analysis units as well as the yield tables. TSR requires the capacity to predict second growth potential. TSR requires resource information to define resource and habitat values

Non-Timber Resource Strategies: A management unit OAF survey will collect data to examine the interaction of spatial planning and non-timber resources. GY will help us to conserve biodiversity and maintain other resource values by monitoring forest predictions over time. The managed stands yield predictions serve to provide information for habitat and other resource values.

LRMP: Land use plans require growth and yield predictive models that represent local conditions as well as supporting higher level plans. The lack of localized GY predictions will lead to risk and uncertainty around the process and its subsequent approval as a higher level plan.

Other: An ongoing project with reliable agency standards.

Additional Benefits:

Partnerships:

Comments: Goal for year 1 will be a work plan and sample plan. Field sampling in year 2 based upon the work plan and only estimates are provided for this activity report.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs**	$25,000	$150,000	$150,000	$0,000	$0,000	$325,000
# Sampl.	**Units**	Workplan	# Sampl.	# Sampl.	# Sampl.	# Sampl.	# Sampl.
	Goals	1	100-Lill	100-Kam			200

Kamloops Region - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: Regional SIBEC**	**Activity #: RGY5**

Description of the Activity: SIBEC (site index biogeoclimatic ecosystem classification) sampling to improve site index estimates.

Status:	"New" OR Years in Progress?: New	Priority Comments:

Location: Kamloops Region	**Management Unit**: ALL

Potential Lead Proponent: MOF - Kamloops Regional Office

Objectives: The site index estimates in the site index site unit (SISU) tables published in 1997 provide a first approximation only. The estimates will be revised, as new data becomes available to enhance the accuracy and coverage of these estimates. Other species such as hardwoods may be addressed with further data integration and collection.

Tasks, Deliverables, Targets & Milestones:
The sample plan is based upon a TSA area weighted Provincial gap analysis. Targeted sample reconnaissance and establishment will be implemented over the next five years.

Target Dates:
50 samples per year over the next 5 years

Benefits & Ranking Criteria: (from plan drivers)

TSR = 9	**NTRS = 7**	**LRMP = 7**	**RIC = 5**	**Timing = 3**	**Total = 31**

Rationale for Ranking:

Timber Supply Review: The SIBEC initiative is essential for bare ground estimates of site productivity as well as providing a common linkage to other Growth and Yield databases and models. Gaps in the SIBEC information will lead to risk and uncertainty around harvest level determinations (AAC) and the planning of harvesting activities. GY data provides a foundation to define the analysis units as well as the yield tables that represent the consequences of management unit decisions. TSR requires the capacity to link biogeoclimatic ecosystem classification (SIBEC) linked productivity to predict second growth potential. TSR requires resource information to define resource and habitat values

Non-Timber Resource Strategies: SIBEC will collect data to examine the interaction of spatial planning and non-timber resources. SIBEC will help us to conserve biodiversity and maintain other resource values by providing information for terrestrial ecosystem mapping (TEM)or predictive ecosystem mapping (PEM) as well as defining other resource values such as habitat

LRMP: Land use plans require growth and yield predictive models that represent local conditions as well as supporting higher level plans. The gaps in the SIBEC information base will lead to risk and uncertainty around the GY predictions and its subsequent approval as a higher level plan.

Other: An ongoing project with reliable agency standards

Additional Benefits:

Partnerships:

Comments: SIBEC activity has been focused Okanagan TSA.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs**	$27,500	$27,500	$27,500	$27,500	$27,500	$137,500
# Sampl	**Units**	# Sampl	# Sampl	# Sampl	# Sampl	# Sampl	# Sampl
	Goals	50	50	50	50	50	250

Kamloops Region - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TEM	**Title: BEC Revisions**	**Activity #: RTEM1**

Description of the Activity: BEC revisions in the Kamloops Region through Dennis Lloyd

Status:	"New" OR Years in Progress?: 4 of 6	**Priority Comments**: Critical to many components of strategic planning.

Location: Kamloops Region	**Management Unit**: ALL

Potential Lead Proponent: MOF - Kamloops Regional Office

Objectives: To refine the existing BEC classification an revise the subzone mapping for the KFR for use in all levels of planning and operations.

Tasks, Deliverables, Targets & Milestones: BEC revisions are scheduled for completion in 2003 with a few loose ends to complete in 2004 but that assumes adequate funding is available to meet targets.	**Target Dates:** 2002 – continue 2003 – finish & publish 2004 – loose ends

Benefits & Ranking Criteria: (from plan drivers)

TSR = 10	**NTRS = 10**	**LRMP = 10**	**RIC = 5**	**Timing = 5**	**Total = 40**

Rationale for Ranking:

Timber Supply Review: Essential for many aspects of TSR and CF is requesting completion in new reviews.

Non-Timber Resource Strategies: Essential for many aspects of TEM/PEM, predictive models and many aspects of wildlife assessments.

LRMP: Directly needed through OGMAs, LUs, RMZs, etc.

Other: RIC standards in place and project due for completion in 2003. When complete many of the strategic planning processes will have immediate benefits.

Partnerships:

Comments: Note: an additional $45,000 from the regional funding is needed in 2002/03 but must be placed into Priority 2 due to other regional needs. In addition, funding is coming through MYA and IFPA sources to ensure target timeframes are achieved.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$180,000	**Costs ($$)**	$160,000	$205,000	$80,000	$0,000	$0,000	$445,000
project	**Units**	project	project	project	ha	ha	project
1	**Goals**	1	1	1			1

A1.2 Kamloops TSA

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title:** AOA Modeling	**Activity #:** KCH1

Description of the Activity:
.

Status:	**Ongoing**	**Priority Comments?:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Tolko

Objectives: To

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** Location

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total = N/A**

Benefits & Ranking Criteria:
Timber Supply Review: .
Non-Timber Resource Strategies: .
LRMP: .
Other: .

Rational for Ranking:

Additional Benefits:

Partnerships: NTIB ?

Comments:
.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$40,000	**Costs ($$)**	$40000	$0,000	$0,000	$0,000	$0,000	$40000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: AOAs – Unspecified**	**Activity #: KCH 2**

Description of the Activity:

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent: .Weyco

Objectives:

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** Location

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total = N/A**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP: .
Other:

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$15,000	$15,000	$0,000	$0,000	$0,000	$30,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: 1	**Title: : Reconnaissance (1:20,000) Fish and Fish Habitat Inventory**	**Activity #: KFFH1**

Description of the Activity:
Reconnaissance (1:20,000) Fish and Fish Habitat Inventory (FFHI) of the Tumtum creek/mud lake watersheds within the Timber Supply Area. This activity is designed to fill knowledge gaps related to the distribution of fish and fish habitat throughout the Kamloops Forest Region
Inventory procedures within this area are to follow procedures outlined in the *Reconnaissance (1:20,000) Fish and Fish Habitat Inventory Standards and Procedures* manual.

Status:	**"New" OR Years in Progress?:** second year.	**Priority Comments:**

Location: .	**Management Unit**: Kamloops TSA

Potential Lead Proponent: The lead Proponents of the proposed 1:20,000 FFHI activity is Weyerhaeuser

Objectives: Conduct a Reconnaissance (1:20,000) Fish and Fish Habitat Inventories to determine the distribution of fish and fish habitat within the Tumtum creek and mud lake watersheds.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Conduct FFHI Phases 1-3 (historic data collection, watershed classification and pre-field planning preparation) on the entire study area.
Conduct FFHI Phase 4-6 (field data collection, data analysis and report production) on the study area.

Benefits & Ranking Criteria: (from plan drivers)

TSR = 7	**NTRS = 7**	**LRMP = 8**	**RIC = 5**	**Timing = 5**	**Total = 32**

Rationale for Ranking:
The distribution and composition of fish and fish habitat within the Kamloops Forest Region is required to fill knowledge gaps outlined as issues within regional Timber Supply Review (riparian classification), LRMP documents, the Non-Timber Resource Strategy and within the MWLAP and MSRM Fisheries Strategic Plans. Reconnaissance level fish and fish habitat distribution information is also required to for local management planning such as forest licensees operation planning. Methodologies and deliverables for 1:20,000 FFHI's were developed specifically by the RIC.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$40,000	**Costs ($$)**	$64,800	$	$	$	$	$64800
ha	**Units**	ha	ha	ha	Ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: FFH – FHAT20 Modelling**	**Activity #: KFFH 2**

Description of the Activity: Test FHAT20 Modeling on existing inventories

Status:	**"New" OR Years in Progress?:** Year 2	**Priority Comments?:** Fill in information gaps with existing inventories

Location: Weyerhaeuser Operating Area **outside of TFL 35**	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: Field truth inventory output from the FHAT20 model

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing information regarding fish distribution and stream class.	**Target Dates:** March 2005

Benefits & Ranking Criteria:

TSR = 4	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 5**	**Total = 33**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –local consideration may be made to volume adjustments in meeting stream quality objectives
NTRS – High interest area regarding water quality
LRMP – Information obtained may be used to address water quality issues identified in the Kamloops LRMP

Additional Benefits:

Partnerships: Project provides continued partnership between Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$25,000	**Costs ($$)**	$25,000	$25,000	$25,000			$75,000
Report	**Units**	Report	Report	Report	ha	ha	Report
1	**Goals**	1	1	1			1

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: FISH Pop. Recce**	Activity #: KFFH 3

Description of the Activity: Population and distribution reccie's

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:** Fill in information gaps with existing inventories

Location: Weyerhaeuser Operating Area, **outside of TFL 35**	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: Fish distributions and populations

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** March 2007

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 3**	**Timing = 3**	**Total = 28**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –local consideration may be made to volume adjustments in meeting stream quality objectives
NTRS – High interest area regarding water quality
LRMP – Information obtained may be used to address water quality issues identified in the Kamloops LRMP

Additional Benefits:

Partnerships: potential partnership with local bands

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	40,000	$40,000	$40,000	$40,000	$40,000	$200,000
Report	**Units**	Report	study	study	study	study	study
0	**Goals**	0	1	1	1	1	1

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: 1	**Title: : Reconnaissance Adams Lake**	Activity #: KFFH4

Description of the Activity:
Reconnaissance (1:20,000) Fish and Fish Habitat Inventory (FFHI) of the Adams Lake watershed within the Timber Supply Area. This activity is designed to fill knowledge gaps related to the distribution of fish and fish habitat throughout the Kamloops Forest Region as specified by RMP Issue 1. Inventory procedures within this area are to follow procedures outlined in the *Reconnaissance (1:20,000) Fish and Fish Habitat Inventory Standards and Procedures* manual.

Status:	**"New" OR Years in Progress?:** second year.	**Priority Comments:**

Location: Various priority locations in Adams Lake .	**Management Unit:** Kamloops TSA

Potential Lead Proponent: The lead Proponents of the proposed 1:20,000 FFHI activity is Interfor

Objectives: Conduct a Reconnaissance (1:20,000) Fish and Fish Habitat Inventories to determine the distribution of fish and fish habitat within the Adams Lake watershed.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Conduct FFHI Phases 1-3 (historic data collection, watershed classification and pre-field planning preparation) on the entire study area.
Conduct FFHI Phase 4-6 (field data collection, data analysis and report production) on the study area.

Benefits & Ranking Criteria: (from plan drivers)

TSR = 7	**NTRS = 7**	**LRMP = 8**	**RIC = 5**	**Timing = 5**	**Total = 32**

Rationale for Ranking:
The distribution and composition of fish and fish habitat within the Kamloops Forest Region is required to fill knowledge gaps outlined as issues within regional Timber Supply Review (riparian classification), LRMP documents, the Non-Timber Resource Strategy and within the MWLAP and MSRM Fisheries Strategic Plans. Reconnaissance level fish and fish habitat distribution information is also required to for local management planning such as forest licensees operation planning. Methodologies and deliverables for 1:20,000 FFHI's were developed specifically by the RIC.

Additional Benefits: Gap identified in SFI certification initiative

Partnerships: Adams Lake Indian Band

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$40,000	**Costs ($$)**	$75000	$	$	$	$	$
ha	**Units**	ha	ha	ha	Ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Species and Population Specific Inventory**	Activity #: KFFH 5

Description of the Activity:

The purpose of the *Species and Population Specific Inventory* activity is to fill knowledge gaps related to the distribution, abundance, and current status of Rainbow trout within the clearwater watershed.

Information collected under this activity will provide more detail in the current status, distribution and location of critical habitat of regionally important fish species.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location: Clearwater river	**Management Unit:** Kamloops TSA

Potential Lead Proponent:

Objectives:

The objective of the *Species and Population Specific Fish Inventory* is to increase the quantity and quality of information on Rainbow trout populations within the clearwater watershed. Data on this population are required by regional biologists to implement effective management strategies and by stakeholders and forest licensees to aid in the construction of effective development and operational plans.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 4	**NTRS = 7**	**LRMP =8**	**RIC =3**	**Timing=3**	**Total =25**

Rationale for Ranking:

Additional Benefits: Information collected through detailed fisheries investigations will aid in the formation of local and regional land use strategies, will contribute the information base required for predictive fish distribution modelling and provide detail needed in operational level development plans.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs**	$40000	$	$	$	$	$40000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Species and Population Specific Inventory**	Activity #: KFFH 6

Description of the Activity:
The purpose of the *Species and Population Specific Inventory* activity is to fill knowledge gaps related to the distribution, abundance, and current status of Bull trout within the North Thompson watershed.
Information collected under this activity will provide more detail in the current status, distribution and location of critical habitat of regionally important fish species.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location: North Thompson river	**Management Unit:** Kamloops TSA

Potential Lead Proponent:

Objectives:
The objective of the *Species and Population Specific Fish Inventory* is to increase the quantity and quality of information on Bull trout populations within the North Thompson watershed. Data on this population are required by regional biologists to implement effective management strategies and by stakeholders and forest licensees to aid in the construction of effective development and operational plans.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 4	**NTRS = 7**	**LRMP =8**	**RIC =3**	**Timing3**	**Total =25**

Rationale for Ranking:

Additional Benefits: Information collected through detailed fisheries investigations will aid in the formation of local and regional land use strategies, will contribute the information base required for predictive fish distribution modelling and provide detail needed in operational level development plans.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$120,000	$100,000	$	$	$	$220000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Species and Population Specific Inventory**	Activity #: KFFH 7

Description of the Activity:
The purpose of the *Species and Population Specific Inventory* activity is to fill knowledge gaps related to the distribution, abundance, and current status of Kokanee within the Kamloops TSA.

Information collected under this activity will provide more detail in the current status, distribution and location of critical habitat of regionally important fish species.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent:

Objectives:
The objective of the *Species and Population Specific Fish Inventory* is to increase the quantity and quality of information on Kokanee populations within the Kamloops TSA. Data on this population are required by regional biologists to implement effective management strategies and by stakeholders and forest licensees to aid in the construction of effective development and operational plans.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 4	**NTRS = 7**	**LRMP =8**	**RIC =3**	**Timing=3**	**Total =25**

Rationale for Ranking:

Additional Benefits: Information collected through detailed fisheries investigations will aid in the formation of local and regional land use strategies, will contribute the information base required for predictive fish distribution modelling and provide detail needed in operational level development plans.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$50000	50000	$50000	$	$	$150000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Species and Population Specific Inventory**	Activity #: KFFH 8

Description of the Activity:
The purpose of the *Species and Population Specific Inventory* activity is to fill knowledge gaps related to the distribution, abundance, and current status of steelhead within the Kamloops TSA.

Information collected under this activity will provide more detail in the current status, distribution and location of critical habitat of regionally important fish species.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent:

Objectives:
The objective of the *Species and Population Specific Fish Inventory* is to increase the quantity and quality of information on steelhead populations within the Kamloops TSA. Data on this population are required by regional biologists to implement effective management strategies and by stakeholders and forest licensees to aid in the construction of effective development and operational plans.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 4	**NTRS = 7**	**LRMP =8**	**RIC =3**	**Timing=3**	**Total =25**

Rationale for Ranking:

Additional Benefits: Information collected through detailed fisheries investigations will aid in the formation of local and regional land use strategies, will contribute the information base required for predictive fish distribution modelling and provide detail needed in operational level development plans.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$30000	$30000	$30000	$	$	$90000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Species and Population Specific Inventory**	Activity #: KFFH 9

Description of the Activity:
The purpose of the *Species and Population Specific Inventory* activity is to fill knowledge gaps related to the distribution, abundance, and current status of Rainbow trout within the Barriere watershed.

Information collected under this activity will provide more detail in the current status, distribution and location of critical habitat of regionally important fish species.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent:

Objectives:
The objective of the *Species and Population Specific Fish Inventory* is to increase the quantity and quality of information on Rainbow trout populations within the Barriere watershed. Data on this population are required by regional biologists to implement effective management strategies and by stakeholders and forest licensees to aid in the construction of effective development and operational plans.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 4	**NTRS = 7**	**LRMP =8**	**RIC =3**	**Timing3**	**Total =25**

Rationale for Ranking:

Additional Benefits: Information collected through detailed fisheries investigations will aid in the formation of local and regional land use strategies, will contribute the information base required for predictive fish distribution modelling and provide detail needed in operational level development plans.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$50000	$50000	$	$	$	$100000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Species and Population Specific Inventory**	Activity #: KFFH 10

Description of the Activity:
The purpose of the *Species and Population Specific Inventory* activity is to fill knowledge gaps related to the distribution, abundance, and current status of Rainbow Trout in Adams Lake.

Information collected under this activity will provide more detail in the current status, distribution and location of critical habitat of regionally important fish species.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent:

Objectives:
The objective of the *Species and Population Specific Fish Inventory* is to increase the quantity and quality of information on Rainbow trout populations in Adams Lake. Data on this population are required by regional biologists to implement effective management strategies and by stakeholders and forest licensees to aid in the construction of effective development and operational plans.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 4	**NTRS = 7**	**LRMP =8**	**RIC =3**	**Timing=3**	**Total =25**

Rationale for Ranking:

Additional Benefits: Information collected through detailed fisheries investigations will aid in the formation of local and regional land use strategies, will contribute the information base required for predictive fish distribution modelling and provide detail needed in operational level development plans.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$100000	$100000	$50000	$	$	$
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: : Reconnaissance (1:20,000) Fish and Fish Habitat Inventory**	Activity #: KFFH 11

Description of the Activity:
Reconnaissance (1:20,000) Fish and Fish Habitat Inventory (FFHI) of the Thunder and Blue river watersheds within the Timber Supply Area. This activity is designed to fill knowledge gaps related to the distribution of fish and fish habitat throughout the Kamloops Forest Region as specified by RMP Issue 1.

Inventory procedures within this area are to follow procedures outlined in the *Reconnaissance (1:20,000) Fish and Fish Habitat Inventory Standards and Procedures* manual.

Status:	**"New" OR Years in Progress?:** New.	**Priority Comments:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent: The lead Proponents of the proposed 1:20,000 FFHI activity is

Objectives: Conduct a Reconnaissance (1:20,000) Fish and Fish Habitat Inventories to determine the distribution of fish and fish habitat within the Thunder and Blue river watersheds.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Conduct FFHI Phases 1-3 (historic data collection, watershed classification and pre-field planning preparation) on the entire study area. Conduct FFHI Phase 4-6 (field data collection, data analysis and report production) on the study area.	

Benefits & Ranking Criteria: (from plan drivers)

TSR = 7	**NTRS = 7**	**LRMP = 7**	**RIC = 5**	**Timing = 4**	**Total = 30**

Rationale for Ranking:
The distribution and composition of fish and fish habitat within the Kamloops Forest Region is required to fill knowledge gaps outlined as issues within regional Timber Supply Review (riparian classification), LRMP documents, the Non-Timber Resource Strategy and within the MWLAP and MSRM Fisheries Strategic Plans. Reconnaissance level fish and fish habitat distribution information is also required to for local management planning such as forest licensees operation planning. Methodologies and deliverables for 1:20,000 FFHI's were developed specifically by the RIC.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	
0	**Costs ($$)**	$10000	$70000	$	$	$	$80000
ha	**Units**	ha	ha	ha	Ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: : Reconnaissance (1:20,000) Fish and Fish Habitat Inventory**	Activity #: KFFH 12

Description of the Activity:
Reconnaissance (1:20,000) Fish and Fish Habitat Inventory (FFHI) of the Upper Adams river watershed within the Timber Supply Area. This activity is designed to fill knowledge gaps related to the distribution of fish and fish habitat throughout the Kamloops Forest Region
Inventory procedures within this area are to follow procedures outlined in the *Reconnaissance (1:20,000) Fish and Fish Habitat Inventory Standards and Procedures* manual.

Status:	**"New" OR Years in Progress?:** New.	**Priority Comments:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent: The lead Proponents of the proposed 1:20,000 FFHI activity is

Objectives: Conduct a Reconnaissance (1:20,000) Fish and Fish Habitat Inventories to determine the distribution of fish and fish habitat within the Upper Adams river watershed.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Conduct FFHI Phases 1-3 (historic data collection, watershed classification and pre-field planning preparation) on the entire study area.	
Conduct FFHI Phase 4-6 (field data collection, data analysis and report production) on the study area.	

Benefits & Ranking Criteria: (from plan drivers)

TSR = 7	**NTRS = 7**	**LRMP = 8**	**RIC = 5**	**Timing = 4**	**Total = 31**

Rationale for Ranking:
The distribution and composition of fish and fish habitat within the Kamloops Forest Region is required to fill knowledge gaps outlined as issues within regional Timber Supply Review (riparian classification), LRMP documents, the Non-Timber Resource Strategy and within the MWLAP and MSRM Fisheries Strategic Plans. Reconnaissance level fish and fish habitat distribution information is also required to for local management planning such as forest licensees operation planning. Methodologies and deliverables for 1:20,000 FFHI's were developed specifically by the RIC.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	
0	**Costs ($$)**	$25000	$100000	$100000	$	$	$225 000
ha	**Units**	ha	ha	ha	Ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: PSP remeasurement**	Activity #: KGY1

Description of the Activity: Remeasurement of permanent sample plots.

Status:	**"New" OR Years in Progress?:** ongoing	**Priority Comments:**

Location: Kamloops TSA	**Management Unit:** Kamloops TSA

Potential Lead Proponent:

Objectives: To monitor growth and yield of forest stands over time.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	**NTRS = 3**	**LRMP =5**	**RIC =5**	**Timing =3**	**Total =24**

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments: Is this for licensee PSPs?

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$20,000	**Costs ($$)**	$100,000	$0,000	$0,000	$0,000	$0,000	$100,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: ESSF inventory review**	Activity #: KGY 2

Description of the Activity: Review the ESSF inventory to compare the actual stand to the modelled stand

Status:	**New**	**Priority Comments:**

Location: Adams lake	**Management Unit**: Kamloops TSA

Potential Lead Proponent: Interfor

Objectives: To review the standing timber in the ESSF zone

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	**NTRS = 6**	**LRMP =6**	**RIC = 4**	**Timing =4**	**Total =28**

Rationale for Ranking: Identified as a priority from Lloyd Wilson and Dan Peterson of Kamloops Forest Region

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$75,000	$0,000	$0,000	$0,000	$0,000	$75,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: IT	**Title: Ortho Photo update**	Activity #: KIT1

Description of the Activity: Completeing Ortho photo's for Slocan operating area.

Status:	**"New" OR Years in Progress?:** second year	**Priority Comments:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Slocan

Objectives: Completion of Ortho photo updating.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 7	**NTRS = 7**	**LRMP =3**	**RIC = 5**	**Timing =5**	**Total =27**

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$30,000	**Costs ($$)**	$30,000	$0,000	$0,000	$0,000	$0,000	$30,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TEM2	**Title: Ikonos Satellite Imagery**	Activity #: KIT 2

Description of the Activity: new digital imagery for Adams Lake at 1m resolution

Status:	**"New" OR Years in Progress?:** 1	**Priority Comments:**

Location: Adams Lake	**Management Unit:**

Potential Lead Proponent: Adams Lake Lumber

Objectives: Reliable remote sensing information that may reduce costs for future projects by reducing costly field visits.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	**NTRS = 8**	**LRMP =3**	**RIC = 3**	**Timing =4**	**Total =26**

Rationale for Ranking:

Additional Benefits: certification

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$28,000	**Costs ($$)**	$50,000	$25,000	$25,000	$0,000	$0,000	$100,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: OGMA's (1)**	Activity #: KRP 1

Description of the Activity:

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Slocan

Objectives: To assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 4	**NTRS = 4**	**LRMP =5**	**RIC = 3**	**Timing =3**	**Total =19**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$100,000	**Costs ($$)**	$50,000	$50,000	$50,000	$0,000	$0,000	$150,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: OGMA's (2)**	Activity #: KRP 2

Description of the Activity:

Status:	**"New" OR Years in Progress?:** 2 years	**Priority Comments?:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Tolko

Objectives: To assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** Location

Benefits & Ranking Criteria:

TSR = 4	**NTRS = 4**	**LRMP =5**	**RIC = 3**	**Timing =3**	**Total = 19**

Benefits & Ranking Criteria:
Timber Supply Review: .
Non-Timber Resource Strategies: .
LRMP: .
Other: .

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:
.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$150,000	**Costs ($$)**	$250,000	$0,000	$0,000	$0,000	$0,000	$250,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: LRUP's Greenstone Area**	Activity #: KRP 3

Description of the Activity

Status:	**"New" OR Years in Progress?:** 3rd	**Priority Comments?:**

Location: Greenstone Mtn Area

Management Unit: Kamloops TSA

Potential Lead Proponent: West Fraser

Objectives: To assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR.

Tasks, Deliverables, Targets & Milestones:

Target Dates: Location

Benefits & Ranking Criteria:

TSR = 0	**NTRS = 10**	**LRMP = 5**	**RIC = 3**	**Timing =5**	**Total =23**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP: .
Other:

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$36,000	**Costs ($$)**	36000	$0,000	$0,000	$0,000	$0,000	36000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Road Netdowns**	Activity #: KRP 4

Description of the Activity:

Status:	**"New" OR Years in Progress?:** 3 rd	**Priority Comments?:**

Location:	**Management Unit:** Kamloops TSA

Potential Lead Proponent:

Objectives: To assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 10	**NTRS = 7**	**LRMP = 5**	**RIC = 3**	**Timing = 4**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review: Accurate numbers required for TSR
Non-Timber Resource Strategies:
LRMP:
Other:

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$30000	**Costs ($$)**	$30,000	0	$0,000	$0,000	$0,000	$30,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TEM	**Title: BEC Revisions**	**Activity #: KTEM1**

Description of the Activity: Kamloops TSA contribution to BEC revisions in the Kamloops Region through Dennis Lloyd

Status:	**"New" OR Years in Progress?:** 4 of 6	**Priority Comments:** Critical to many components of strategic planning.

Location: Kamloops Region	**Management Unit:** ALL

Potential Lead Proponent: MOF - Kamloops Regional Office

Objectives: To refine the existing BEC classification an revise the subzone mapping for the KFR for use in all levels of planning and operations.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
BEC revisions are scheduled for completion in 2003 with a few loose ends to complete in 2004 but that assumes adequate funding is available to meet targets.	2002 – continue 2003 – finish & publish 2004 – loose ends

Benefits & Ranking Criteria: (from plan drivers)

TSR = 10	**NTRS = 10**	**LRMP = 10**	**RIC = 5**	**Timing = 5**	**Total = 40**

Rationale for Ranking:

Timber Supply Review: Essential for many aspects of TSR and CF is requesting completion in new reviews.
Non-Timber Resource Strategies: Essential for many aspects of TEM/PEM, predictive models and many aspects of wildlife assessments.
LRMP: Directly needed through OGMAs, LUs, RMZs, etc.
Other: RIC standards in place and project due for completion in 2003. When complete many of the strategic planning processes will have immediate benefits.

Partnerships:

Comments: Note: an additional $45,000 from the regional funding is needed in 2002/03 but must be placed into Priority 2 due to other regional needs. In addition, funding is coming through MYA and IFPA sources to ensure target timeframes are achieved.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$65,200	**Costs ($$)**	$60,000	$0	$0	$0	$0	$60,000
project	**Units**	project	project	project	ha	ha	project
1	**Goals**	1	1	1			1

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TEM1	**Title: TELSA Pilot**	Activity #: KTEM 2
Description of the Activity: Landscape level modeling using new methodology from Walt Klenner		
Status:	**"New" OR Years in Progress?:** 1	**Priority Comments:**
Location: Adams Lake		**Management Unit:**
Potential Lead Proponent: Adams Lake Lumber		
Objectives: Incorporate as many issues into landscape unit planning as possible to increase reliability of predictions		
Tasks, Deliverables, Targets & Milestones:		**Target Dates:**
Benefits & Ranking Criteria: (from plan drivers)		

TSR = 8	**NTRS = 7**	**LRMP =9**	**RIC = 5**	**Timing =4**	**Total =33**

Rationale for Ranking:

Additional Benefits: certification issue

Partnerships: Walt Klenner from Kamloops Region

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$20,000	**Costs ($$)**	$30,000	$25,000	$25,000	$0,000	$0,000	$110,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Level D Somewhere?**	**Activity #: KTSM 1**

Description of the Activity: Level D terrain stability mapping

Status:	**"New" OR Years in Progress?:** new	**Priority Comments?:** Priority 1 in 2001 RMP
Location:		**Management Unit:** Kamloops TSA

Potential Lead Proponent:

Objectives: To

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** Location

Benefits & Ranking Criteria:

TSR = 8	**NTRS = 7**	**LRMP =6**	**RIC = 5**	**Timing =3**	**Total =29**

Benefits & Ranking Criteria:
Timber Supply Review: .
Non-Timber Resource Strategies: .
LRMP: .
Other: .

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:
.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$28,000	$28,000	$0,000	$0,000	$0,000	$56,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title: Visuals on Highways and Lakes**	**Activity #: KVA 1**

Description of the Activity: continuation of Activity 716140 (2000) and 721646 (2001) to complete mapping of corridors and small lakes throughout the district and update digital visual inventory files for distribution to licensees and use in planning processes.

Status: ongoing	**"New" OR Years in Progress?:** ONGOING	**Priority Comments:** high priority for completion to give direction to TSR and strategic plans.

Location: Clearwater District	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhauser carry-over

Objectives: To complete VLI and VQO assessments and to ensure that previously completed works are reliable for use in strategic planning.

Tasks, Deliverables, Targets & Milestones: Field mapping of highways and lakes, digital update of visual inventory files.	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 10	**NTRS = 10**	**LRMP = 8**	**RIC = 5**	**Timing = 5**	**Total = 38**

Benefits & Ranking Criteria:

Timber Supply Review: Up-to-date info is required for TSR

Non-Timber Resource Strategies:

LRMP: Visual management and Visually Sensitive Area update is required by LRMP

Other: Old visual inventories are not to new RIC standards.

Rationale for Ranking: required by LRMP and TSR process

Additional Benefits: improved public acceptance of forest practices

Partnerships: some potential through First Nations contracting

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$10,000	**Costs ($$)**	$10,000	$10,000	$10,000	$10,000	$10,000	$50,000
Lakes and mapsheets	**Units**	Lakes and mapsheets	Lakes and mapsheets	Lakes and mapsheets	Lakes and mapsheets	Lakes and mapsheets	Lakes and mapsheets
0	**Goals**	40 lakes	20 lakes; 1 corridor	20 lakes; 1 corridor	20 lakes; 1 corridor	20 lakes; 1 corridor	120 lakes; 4 corridors

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title: Visuals on Small Lakes and Highways**	**Activity #: KVA 2**

Description of the Activity: continuation of Activity 721740 (2001) to complete visual mapping of numerous small lakes and highway corridors to RIC standards.

Status:	**"New" OR Years in Progress?:** Yr 2 of 5	**Priority Comments?:** high

Location: Kamloops District	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Tolko?

Objectives: To complete VLI and VQO assessments and ensure that previously completed works are reliable for use in strategic planning.

Tasks, Deliverables, Targets & Milestones: field mapping of lakes and corridors and digital update of visual inventory files	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 10	**NTRS = 8**	**LRMP = 8**	**RIC = 5**	**Timing = 5**	**Total = 36**

Benefits & Ranking Criteria:

Timber Supply Review: **up-to-date info is required for TSR**
Non-Timber Resource Strategies:
LRMP: **visual management is required by LRMP**

Other: old visual inventories are not to new RIC standards.

Rationale for Ranking: required by LRMP and TSR process

Additional Benefits: improved public acceptance of forest practices

Partnerships: potential through First Nations contracting

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$11,020	**Costs ($$)**	$22,000	$22,000	$22,000	$22,000	$0	$88,000
# lakes / mapsheets	**Units**	# lakes / mapsheets	# lakes / mapsheets	# lakes / mapsheets	# lakes / mapsheets	# lakes / mapsheets	# lakes / mapsheets
0	**Goals**	30 lakes and 17 corridor mapsheets	30 lakes and 17 corridor mapsheets	30 lakes and 17 corridor mapsheets	30 lakes and 17 corridor mapsheets		120 lakes and 85 corridor mapsheets

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VRI	**Title: Phase 2 Sampling**	**Activity #: KVRI 1**

Description of the Activity:
Ongoing project for Phase 2 permanent samples in 2002 in addition to those being done in 2001. Destructive NVAF sampling of trees for decay and taper factors to be done in 2003. The samples will be used to adjust or confirm volumes in specific timber types to within a 10% sampling error for AAC determination and statistical accuracy for other strategic planning processes such as LRMP. When completed the work need not be repeated for a significant number of years. As permanent samples, these can be re-measured as the need arises. The NVAF trees will be used to improve decay and taper factors for timber volume estimates.

Status:	**"New" OR Years in Progress?:** Year 2 of 3	**Priority Comments?:**

Location: Throughout TSA	**Management Unit:** Kamloops TSA

Potential Lead Proponent: West Fraser

Objectives: To provide statistical validity to previously completed vegetation inventories while establishing permanent samples which will monitor changes in forest structure and biodiversity.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
50% of Phase 2 samples	2001
50% of Phase 2 samples	2002
NVAF trees	2003

Benefits & Ranking Criteria:

TSR = 7	**NTRS = 3**	**LRMP = 7**	**RIC = 5**	**Timing = 5**	**Total = 27**

Benefits & Ranking Criteria:
Timber Supply Review: A direct need in TSR to obtain a statistically adjusted database to calculate harvest forcast.
Non-Timber Resource Strategies: An indirect but strong link to NTRS through monitoring forest change and biodiversity which has implications on wildlife, water and fish. The NVAF trees will have a lesser link to NTRS.
LRMP: An indirect but strong link to LRMPs. Provides certainty around the LRMP scenarios involving timber volumes, and the 'monitoring' aspects can be used as benchmarks for sustainability and a measure of progress toward achieving LRMP goals.
Other: A carry-over project with existing agency standards.

Rational for Ranking: Certainty of knowledge on reliability specifically required by CF and indirect but strong links to both NTRS and LRMP. Will completely resolve issue when completed.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$41,000	**Costs**	$60,000	$60,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VRI	**Title: Phase 2 Sampling**	**Activity #: KVRI 2**

Description of the Activity:
Ongoing project for Phase 2 permanent samples in 2002 in addition to those being done in 2001. Destructive NVAF sampling of trees for decay and taper factors to be done in 2003. The samples will be used to adjust or confirm volumes in specific timber types to within a 10% sampling error for AAC determination and statistical accuracy for other strategic planning processes such as LRMP. When completed the work need not be repeated for a significant number of years. As permanent samples, these can be re-measured as the need arises. The NVAF trees will be used to improve decay and taper factors for timber volume estimates.

Status:	**"New" OR Years in Progress?:** Year 2 of 3	**Priority Comments?:**

Location: Throughout TSA	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Interfor

Objectives: To provide statistical validity to previously completed vegetation inventories while establishing permanent samples which will monitor changes in forest structure and biodiversity.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
50% of Phase 2 samples	2001
50% of Phase 2 samples	2002
NVAF trees	2003

Benefits & Ranking Criteria:

TSR = 7	**NTRS = 3**	**LRMP = 7**	**RIC = 5**	**Timing = 5**	**Total = 27**

Benefits & Ranking Criteria:
Timber Supply Review: A direct need in TSR to obtain a statistically adjusted database to calculate harvest forcast.
Non-Timber Resource Strategies: An indirect but strong link to NTRS through monitoring forest change and biodiversity which has implications on wildlife, water and fish. The NVAF trees will have a lesser link to NTRS.
LRMP: An indirect but strong link to LRMPs. Provides certainty around the LRMP scenarios involving timber volumes, and the 'monitoring' aspects can be used as benchmarks for sustainability and a measure of progress toward achieving LRMP goals.
Other: A carry-over project with existing agency standards.

Rational for Ranking: Certainty of knowledge on reliability specifically required by CF and indirect but strong links to both NTRS and LRMP. Will completely resolve issue when completed.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$25,000	**Costs**	$50,000	$50,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Avola Creek**	**Activity #: KWQ 1**

Description of the Activity: Water quality study in the Avola Creek community watershed.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Clearwater Forest District	**Management Unit:** Kamloops TSA

Potential Lead Proponent:

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: If the project commences April 1, 2002, three years of water sampling will be complete as of July 31, 2005 followed by preparation of the final water quality assessment and objectives report in the year following sample collection.	**Target Dates:** Project will be complete March 31, 2006.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =8**	**RIC = 4**	**Timing =4**	**Total = 28**

Timber Supply Review: To be determined locally
Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.
LRMP: Resolves a knowledge gap for the TSA and was indirectly referenced in the LRMP.
Other:. Approved (published) RIC standards apply to all components of the deliverables.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$17,500	$17,500	$17,500	$8,000	$0,000	$60,500
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title:** WQQT –	**Activity #:** KWQ 2

Description of the Activity: Adams river hydrometric station

Status:	**"New" OR Years in Progress?:** continued project	**Priority Comments?:**

Location: Adams river	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Interfor

Objectives: To monitor stream quality parameters in planning water quality objectives

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** March 2004

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP = 8**	**RIC = 4**	**Timing = 5**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –local consideration may be made to volume adjustments in meeting stream quality objectives
NTRS – High interest area regarding water quality
LRMP – Information obtained may be used to address water quality issues identified in the Kamloops LRMP

Additional Benefits:

Partnerships: This project is lead through Interfor for the Ministry of Environment, Lands and Parks – water management division

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$10,000	**Costs ($$)**	$9200	9200	9200	9200		$36800
Report	**Units**	Report	Report	ha	ha	ha	Report
1	**Goals**	1	1				1

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: WQQT –**	**Activity #: KWQ 3**

Description of the Activity: Lemieux creek hydrometric station

Status:	**"New" OR Years in Progress?:** continued project	**Priority Comments?:**

Location: Lemieux creek — **Management Unit:** Kamloops TSA

Potential Lead Proponent: Tolko

Objectives: To monitor stream quality parameters in planning water quality objectives

Tasks, Deliverables, Targets & Milestones: — **Target Dates:** March 2004

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP = 8**	**RIC = 4**	**Timing = 5**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –local consideration may be made to volume adjustments in meeting stream quality objectives
NTRS – High interest area regarding water quality
LRMP – Information obtained may be used to address water quality issues identified in the Kamloops LRMP

Additional Benefits:

Partnerships: This project is lead through Tolko for the Ministry of Environment, Lands and Parks – water management division

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$10,800	**Costs ($$)**	$9300	9300	9300	9300		$37200
Report	**Units**	Report	Report	ha	ha	ha	Report
1	**Goals**	1	1				1

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: WQQT –**	**Activity #: KWQ 4**

Description of the Activity: Arrow/Cashe creek hydrometric station

Status:	**"New" OR Years in Progress?:** continued project	**Priority Comments?:**

Location: Arrow/Cashe creek	**Management Unit:** Kamloops TSA

Potential Lead Proponent: West Fraser

Objectives: To monitor stream quality parameters in planning water quality objectives

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** March 2004

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP = 8**	**RIC = 4**	**Timing = 5**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –local consideration may be made to volume adjustments in meeting stream quality objectives
NTRS – High interest area regarding water quality
LRMP – Information obtained may be used to address water quality issues identified in the Kamloops LRMP

Additional Benefits:

Partnerships: This project is lead through West Fraser for the Ministry of Environment, Lands and Parks – water management division

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$16,000	**Costs ($$)**	$16000	16000	16000	16000		$64000
Report	**Units**	Report	Report	ha	ha	ha	Report
1	**Goals**	1	1				1

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Tranquille Peterson Paul**	**Activity #: KWQ 5**

Description of the Activity: Water quality study in the Tranquille River, Peterson Creek and Paul Creek watersheds.

Status:	**"New" OR Years in Progress?:** Three years in progress	**Priority Comments?:**

Location: Kamloops Forest District

Management Unit: Kamloops TSA

Potential Lead Proponent: Weyerhaeuser

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: Three years of water sampling were complete as of March 31/02. Auto stations only were operated to June 15, 2001. Project requires completion of the final water quality assessment and objectives report

Target Dates: Project complete March 31, 2003.

Benefits & Ranking Criteria:

TSR = 6	**NTRS = 7**	**LRMP =9**	**RIC = 4**	**Timing =5**	**Total =31**

Timber Supply Review: To be determined locally
Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.
LRMP: Resolves a knowledge gap for the TSA and was indirectly referenced in the LRMP.
Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$48000	**Costs ($$)**	$24,000	$0	$0	$0	$0,000	$24000
reports	**Units**	reports	reports	reports	reports	reports	reports
6	**Goals**	2	0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Adams Lake Water quality**	Activity #: KWQ 6

Description of the Activity: Water sampling below Adams Lake sawmill

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location: South end of Adams Lake	**Management Unit:**

Potential Lead Proponent: Adams Lake Lumber

Objectives: Determine what effects, if any, the sawmill at Adams Lake are having on water quality in Adams Lake given its proximity to the river.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: certification issue

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$25,000	$25,000	$25,000	$0,000	$0,000	$75,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Taweel**	**Activity #: KWQ 7**

Description of the Activity: Stream flow study in the upper Taweel Lake area.

Status:	**"New" OR Years in Progress?:** Two years in progress	**Priority Comments?:**

Location: Kamloops Forest District	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Tolko Industries Ltd. Louis Creek Division

Objectives: To determine the impact of "large block clear cut" harvesting on runoff and stream flow.

Tasks, Deliverables, Targets & Milestones: Two years of snow accumulation data and stream flow will be completed March 31, 2002. This is a long term study. Approximately 5 years of pre-harvest and 5 years of post-harvest data are required.	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 8	**NTRS = 9**	**LRMP =4**	**RIC = 4**	**Timing = 5**	**Total = 30**

Timber Supply Review: To be determined locally
Non-Timber Resource Strategies: Will resolve knowledge gaps around impacts of large block harvesting on water yield and flow. Yield and flow are specifically referenced in the Water NTRS
LRMP: Resolves a gap that may not have been apparent at the time when the LRMP was prepared.
Other: Approved (published) RIC standards applies to stream flow monitoring and reliable agency standards applies to snow accumulation measurement.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$65,000	**Costs ($$)**	$25,000	$25,000	$25,000	$25,000	$25,000	$100,000
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Heller**	**Activity #: KWQ 8**

Description of the Activity: Water quality study in Heller Creek and tributaries.

Status:	**"New" OR Years in Progress?:** One year in progress	**Priority Comments?:**

Location: Kamloops Forest District	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhaeuser

Objectives: Determine the impact of logging activities on water quality in Heller Creek and tributaries.

Tasks, Deliverables, Targets & Milestones: One year of water sampling and automated station operation will be complete as of March 31/02. Continue water sampling through 2002/03.	**Target Dates:** Project complete March 31, 2004.

Benefits & Ranking Criteria:

TSR = 6	**NTRS = 7**	**LRMP =8**	**RIC = 4**	**Timing =5**	**Total =30**

Timber Supply Review: To be determined locally
Non-Timber Resource Strategies: To be determined locally
LRMP: Not specifically referenced in the LRMP but is a known concern.
Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$17,500	**Costs ($$)**	17,500	$17,500	$0	$0	$0,000	$35,500
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title:** **WQQT – Criss Creek W/S**	Activity #: KWQ 9

Description of the Activity: Criss Creek watershed hydrometric station

Status:	**"New" OR Years in Progress?:** continued project	**Priority Comments?:** - domestic water source

Location: Criss Creek watershed	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To monitor stream quality parameters in planning water quality objectives

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing an information base upon which water quality impacts on Criss Creek can be evaluated against.	**Target Dates:** March 2004

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP = 8**	**RIC = 4**	**Timing = 4**	**Total = 28**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR –local consideration may be made to volume adjustments in meeting stream quality objectives
NTRS – High interest area regarding water quality
LRMP – Information obtained may be used to address water quality issues identified in the Kamloops LRMP

Additional Benefits:

Partnerships: This project is lead through Weyerhaeuser for the Ministry of Environment, Lands and Parks – water management division

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$12,000	**Costs ($$)**	$12,000					$12,000
Report	**Units**	Report	Report	ha	ha	ha	Report
1	**Goals**	1	1				1

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: East Blackpool**	**Activity #: KWQ 10**

Description of the Activity: Water quality study in the East Blackpool area including Lone, Bester, Rennie and Axel Creeks.

Status:	**"New" OR Years in Progress?:** Three years in progress	**Priority Comments?:**

Location: Clearwater Forest District	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhaeuser

Objectives: Determine the impact of logging activities on water quality in Lone, Bester, Rennie and Axel Creeks.

Tasks, Deliverables, Targets & Milestones: Three years of water sampling will be complete as of March 31/02. Continue sampling through 2002/03 and prepare final report.	**Target Dates:** Project complete March 31, 2003.

Benefits & Ranking Criteria:

TSR = 6	**NTRS = 7**	**LRMP =8**	**RIC = 4**	**Timing =5**	**Total =30**

Timber Supply Review: To be determined locally
Non-Timber Resource Strategies: To be determined locally
LRMP: Not specifically mentioned in the LRP but is a known concern.
Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if project is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$12,000	**Costs ($$)**	$8,000	$0	$0	$0	$0,000	8,000
reports	**Units**	reports	reports	reports	reports	reports	reports
1	**Goals**	1	1				1

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Nelson Creek**	**Activity #: KWQ 11**

Description of the Activity: Water quality study in the Nelson Creek community watershed.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Kamloops Forest District

Management Unit: Kamloops TSA

Potential Lead Proponent:

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: If the project commences April 1, 2002, three years of water sampling will be complete as of July 31, 2005 followed by preparation of the final water quality assessment and objectives report.

Target Dates: Project will be complete March 31, 2006.

Benefits & Ranking Criteria:

TSR = 6	**NTRS = 7**	**LRMP = 8**	**RIC = 4**	**Timing = 3**	**Total =28**

Timber Supply Review: To be determined locally
Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.
LRMP: Resolves a knowledge gap for the TSA and was indirectly referenced in the LRMP.
Other:. Approved (published) RIC standards apply to all components of the deliverables.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$17,500	$17,500	$17,500	$8,000	$0,000	$60,500
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Skowootum Creek**	**Activity #: KWQ 12**

Description of the Activity: Water quality study in the Skowootum Creek community watershed.

Status:	**“New” OR Years in Progress?:** New	**Priority Comments?:**
Location: Kamloops Forest District		**Management Unit**: Kamloops TSA

Potential Lead Proponent:

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: If the project commences April 1, 2002, three years of water sampling will be complete as of July 31, 2005 followed by preparation of the final water quality assessment and objectives report.	**Target Dates:** Project will be complete March 31, 2006.

Benefits & Ranking Criteria:

TSR = 6	**NTRS = 7**	**LRMP =8**	**RIC = 4**	**Timing =3**	**Total =28**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Resolves a knowledge gap for the TSA and was indirectly referenced in the LRMP.

Other:. Approved (published) RIC standards apply to all components of the deliverables.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$17,500	$17,500	$17,500	$8,000	$0,000	$60,500
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Russel Creek**	**Activity #: KWQ 13**

Description of the Activity: Water quality study in the Russel Creek community watershed.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Clearwater Forest District

Management Unit: Kamloops TSA

Potential Lead Proponent:

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: If the project commences April 1, 2002, three years of water sampling will be complete as of July 31, 2005 followed by preparation of the final water quality assessment and objectives report.

Target Dates: Project will be complete March 31, 2006.

Benefits & Ranking Criteria:

TSR = 6	**NTRS = 7**	**LRMP =8**	**RIC = 4**	**Timing =3**	**Total =28**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Resolves a knowledge gap for the TSA and was indirectly referenced in the LRMP.

Other:. Approved (published) RIC standards apply to all components of the deliverables.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$38800	$25000	$15000	$0	$0,000	$78800
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Arrowstone Creek**	**Activity #: KWQ 14**

Description of the Activity: Water quality study in Arrowstone Creek

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Kamloops Forest District

Management Unit: Kamloops TSA

Potential Lead Proponent:

Objectives: To study water quality in an undisturbed watershed

Tasks, Deliverables, Targets & Milestones: If the project commences April 1, 2002, three years of water sampling will be complete as of July 31, 2005 followed by preparation of the final water quality assessment and objectives report.	**Target Dates:** Project will be complete March 31, 2006.

Benefits & Ranking Criteria:

TSR = 6	**NTRS = 7**	**LRMP =8**	**RIC = 4**	**Timing =3**	**Total =28**

Timber Supply Review: To be determined locally
Non-Timber Resource Strategies: Water quality assessment sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.
LRMP: Resolves a knowledge gap for the TSA and was indirectly referenced in the LRMP.
Other:. Approved (published) RIC standards apply to all components of the deliverables.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$17500	$17500	$17500	$17500	$0,000	$70000
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Cross Reference to Management Unit Activities:
N/A

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Caribou study**	**Activity #: KWWH1**

Description of the Activity: Studying the North Thompson caibou herd

Status:	**"New" OR Years in Progress?:** 4th year	**Priority Comments:**

Location: Clearwater district	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Tolko

Objectives:

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 10	**NTRS = 10**	**LRMP =9**	**RIC = 4**	**Timing =5**	**Total =38**

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$30,000	**Costs ($$)**	$30,000	$30,000	$0,000	$0,000	$0,000	$60,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Caribou study**	**Activity #: KWWH2**

Description of the Activity: Studying the North Thompson caibou herd

Status:	**"New" OR Years in Progress?:** 4th year	**Priority Comments:**

Location: Clearwater district	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhaeuser

Objectives:

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 10	**NTRS = 10**	**LRMP =9**	**RIC = 4**	**Timing =5**	**Total =38**

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$113,000	**Costs ($$)**	$75,000	$75,000	$0,000	$0,000	$0,000	$150,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Kamloops TSA – Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Skull Mtn deer study**	**Activity #: KWWH3**

Description of the Activity: Studying the biodiversity in the Skull Mtn habitat management area

Status:	**"New" OR Years in Progress?:** 3rd	**Priority Comments:**

Location: Skull Mountain	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Tolko

Objectives: To study the biodiversity (changes) in the management area after harvesting

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	**NTRS = 8**	**LRMP =8**	**RIC = 3**	**Timing =4**	**Total =**

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$90,000	**Costs ($$)**	$90,000	$0,000	$0,000	$0,000	$0,000	$90,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

A1.3 Lillooet TSA

Lillooet - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: Archaeological Trails Inventory**	**Activity #: LCH1**

Description of the Activity:
Locating and mapping the historic trail systems used by aboriginal peoples and assessing their significance and retention values in relation to potential conflicts with other resource uses such as timber extraction or road construction.

Status:	"New" OR Years in Progress?: Year 2 of a 4 year project	Priority Comments?: Considered very important by local bands & is an ongoing project.

Location: Throughout the TSA with emphasis on areas between known dwelling sites and known use sites.

Management Unit: Lillooet TSA

Potential Lead Proponent: Ainsworth carry-over.

Objectives: To determine the location of pre-historic trails and assess their significance to fill an identified knowledge gap with follow-up work to develop resource use strategies to the satisfaction of all affected stakeholders.

Tasks, Deliverables, Targets & Milestones: On average, complete 25% of the trail locations, mapping and assessments in the TSA each year. In the 5th year work out resource management strategies and plans that minimize conflict and adequately optimize resource protection and development. This inventory should also be completed prior to the next TSR and any major LRMP updates.

Target Dates: Location, mapping and assessment by April 1, 2005, with strategies developed by April 1, 2006

Benefits & Ranking Criteria:

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =N/A

Benefits & Ranking Criteria:

Timber Supply Review: An indirect need in TSR, under operability, protected areas and access.

Non-Timber Resource Strategies: ???

LRMP: An indirect need in LRMP, under access planning and priority trails.

Other: An ongoing project with reliable agency standards.

Rational for Ranking:

Additional Benefits:

Partnerships: Band members to be used in the inventory phases and tribal elders to assist in the assessment of significance. All stakeholders to be involved in the development of the resource use strategies.

Comments:
Activity timing fits nicely with TSR & LRMP scheduling.

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$100,000	Costs ($$)	$36,500	$50,000	$50,000	$50,000	$50,000	$236000
ha	Units	ha	ha	ha	ha	ha	ha
500,000	Goals	150,000	250,000	250,000	250,000	250,000	1,150,000

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: : Reconnaissance (1:20,000) Fish and Fish Habitat Inventory**	**Activity #: LFFH1**

Description of the Activity:
Reconnaissance (1:20,000) Fish and Fish Habitat Inventory (FFHI) of the watershed within the Timber Supply Area. This activity is designed to fill knowledge gaps related to the distribution of fish and fish habitat throughout the Kamloops Forest Region as specified by RMP Issue 1. Inventory procedures within this area are to follow procedures outlined in the *Reconnaissance (1:20,000) Fish and Fish Habitat Inventory Standards and Procedures* manual.

Status:	"New" OR Years in Progress?: 3.	**Priority Comments:**

Location: Where??

Management Unit: Lillooet

Potential Lead Proponent: The lead Proponents of the proposed 1:20,000 FFHI activity is

Objectives: Conduct a Reconnaissance (1:20,000) Fish and Fish Habitat Inventories to determine the distribution of fish and fish habitat within the watershed.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Conduct FFHI Phases 1-3 (historic data collection, watershed classification and pre-field planning preparation) on the entire study area.

Conduct FFHI Phase 4-6 (field data collection, data analysis and report production) on the study area.

Benefits & Ranking Criteria: (from plan drivers)

TSR = 5	**NTRS = 9**	**LRMP = 5**	**RIC =5**	**Timing =4**	**Total = 28**

Rationale for Ranking:
The distribution and composition of fish and fish habitat within the Kamloops Forest Region is required to fill knowledge gaps outlined as issues within regional Timber Supply Review (riparian classification), LRMP documents, the Non-Timber Resource Strategy and within the MWLAP and MSRM Fisheries Strategic Plans. Reconnaissance level fish and fish habitat distribution information is also required to for local management planning such as forest licensees operation planning. Methodologies and deliverables for 1:20,000 FFHI's were developed specifically by the RIC.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$200,000	**Costs ($$)**	$170000	$180000	$180000	$180000	$0	$710000
ha	**Units**	ha	ha	ha	Ha	ha	ha
	Goals						

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Fish Studies**	**Activity #: LFFH2**

Description of the Activity:
Predictably model fish distribution and fish habitat capability in the watershed using the Fish Habitat Assessment Tool (FHAT20).

Status:	**"New" OR Years in Progress?:** new	**Priority Comments:** .

Location: .	**Management Unit:** L

Potential Lead Proponent: .

Objectives: The objective the Fish Studies activity is to, using a RIC designed Fish Habitat Model, provide statistically valid predictions of fish and fish habitat distribution as well as, fish habitat capability over entire management areas.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Assemble existing electronic databases and mapping products from the completed FFHI activities within the into the FHAT20 model format. Perform field verification of model predictions on watersheds throughout the study area.	

Benefits & Ranking Criteria: (from plan drivers)

TSR = 4	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing = 2**	**Total = 25**

Rationale for Ranking: Riparian management zones predicted from FHAT20 results will aid in the accuracy of TSR calculations. Fish distribution and habitat capability modelling will aid in reach broad and specific goals outlined in LRMP documents. . Methodologies and deliverables for 1:20,000 FFHI's were developed specifically by the RIC.

Additional Benefits: The benefit of creating statistically valid predictions of fish and fish habitat distribution is the inclusion of those results in regionally planning documents such as Local Area Agreements (LAA). Valid, acceptable predictions of fish distribution will decrease the operational costs to local forest licensees through reducing field and planning costs associated with determining reach by reach riparian management zones.

Partnerships:

Comments: Insufficient funding for delivery in 2002. Delivery may not happen for 4 to 5 years

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$	**Costs ($$)**	$0	$0	$0	$0	$40000	$40000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: TEM	**Title: PEM for TSA**	**Activity #: LTEM1**

Description of the Activity: Predictive Ecosystem Mapping

Status:	**"New" OR Years in Progress?:** Year 2 of 3	**Priority Comments?:**

Location: Entire TSA	**Management Unit:** Lillooet TSA

Potential Lead Proponent: Ainsworth

Objectives: Provide the detailed biophysical attributes of the land base for use in strategic planning and resource management decisions.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
One third of TSA	2001
One third of TSA	2002
One third of TSA	2003

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 5**	**LRMP =7**	**RIC = 2**	**Timing =5**	**Total =24**

Benefits & Ranking Criteria:
Timber Supply Review: improvement in accuracy of BCG mapping will lead to improved AAC estimates
Non-Timber Resource Strategies: describes ecosystems for biodiversity management and habitat supply
LRMP: reduces uncertainty around LRMP decisions
Other:.on going project

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$100,000	**Costs ($$)**	$100,000	$100,000	$0,000	$0,000	$0,000	$200,000
ha	**Units**	ha	ha	ha	ha	ha	ha
375,000	**Goals**	375.000	375,000	0	0	0	1,125,000

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: VA | **Title: Lakes Classification** | **Activity #: LVA1**

Description of the Activity: Continuation of Activity 716814 to gather data and classify lakes throughout Lillooet TSA.

Status: **"New" OR Years in Progress?:** Yr 2 of 4 year project | **Priority Comments**: Considered very important by MOF for TSR and strategic planning input.

Location: lakes throughout Lillooet TSA. | **Management Unit**: Lillooet TSA

Potential Lead Proponent: Ainsworth carry over

Objectives: To complete data gathering and classification of lakes for use in TSR, strategic planning and resource decision-making.

Tasks, Deliverables, Targets & Milestones: gather existing resource data, obtain stakeholder input, carry out classification process. | **Target Dates:**

Benefits & Ranking Criteria:

TSR = 5 **NTRS = 2** **LRMP = 5** **RIC = 4** **Timing = 4** **Total = 20**

Benefits & Ranking Criteria:

Timber Supply Review: Required for TSR to determine operability and net-downs. Expectation by Chief Forester that it will be available for next TSR.

Non-Timber Resource Strategies:

LRMP: Identified as needed information by LRMP.

Other: An ongoing project with reliable agency standards.

Rationale for Ranking: required by TSR and LRMP processes

Additional Benefits: Improved inter-agency management around lakes; improved stakeholder and public support.

Partnerships: possible FN partnerships with portions of the data-gathering.

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$20,000	**Costs ($$)**	$0	$50,000	$50,000	$30,000	$0,000	$130,000
# lakes	**Units**	# lakes	# lakes	# lakes	# lakes	# lakes	# lakes
181 lakes	**Goals**	lakes	181 lakes	181 lakes	181 lakes	0	181 lakes

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title:** Lakes VQOs	**Activity #:** LVA2

Description of the Activity: Continuation of Activity 716813 to complete an inventory and assessment of views from lakes identified by LRMP Visuals Working Group. Mapping of 4 larger lakes and numerous smaller lakes. This is an ongoing project directly linked to Lakes Classification (LVA1) which provides Visual Quality Objectives (VQOs) for lakes in the TSA.

Status:	"New" OR Years in Progress?: Yr 2 of 5	Priority Comments?: High – need to fill data gap in visual inventory for TSR and LRMP.

Location: numerous lakes throughout the TSA.	**Management Unit**: Lillooet TSA

Potential Lead Proponent: Ainsworth

Objectives: To complete outstanding visual inventory and VQO assessment on lakes for use in strategic planning, TSR and resource decision-making.

Tasks, Deliverables, Targets & Milestones: complete 30+ lakes per year and add to digital database.	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 2**	**LRMP = 5**	**RIC = 5**	**Timing = 5**	**Total = 22**

Benefits & Ranking Criteria:

Timber Supply Review: Required input for TSR.

Non-Timber Resource Strategies: .

LRMP: Directly identified as an LRMP need through the Visuals Working Group.

Other: An ongoing project with approved RIC standards.

Rationale for Ranking: required by LRMP and TSR process

Additional Benefits: improved public acceptance of forest practices.

Partnerships:. Some potential for FN employment

Comments:

.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$20,000	**Costs ($$)**	$0	$0,000	$0,000	$0,000	$23,000	$23,000
# lakes	**Units**	# lakes	# lakes	# lakes	# lakes	# lakes	# lakes
28 lakes	**Goals**	0	0	0	0	30 lakes	30 lakes

Lillooet - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title: Views From Communities**	**Activity #: LVA3**

Description of the Activity: Visual inventory and VQO assessment of views from communities within Lillooet TSA. Inventories to date have focused on views from highways which have included only portions of views from the communities they pass through.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Identified communities throughout the TSA.	**Management Unit:** Lillooet TSA

Potential Lead Proponent: .Ainsworth

Objectives: To complete visual inventory and VQO assessment for views from communities.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** Location

Benefits & Ranking Criteria:

TSR = 4	**NTRS = 2**	**LRMP =5**	**RIC = 5**	**Timing =2**	**Total = 18**

Benefits & Ranking Criteria:
Timber Supply Review: Up-to-date data is required for TSR
Non-Timber Resource Strategies:
LRMP: Directly identified as an LRMP need through the Visuals Working Group.
Other: LRMP-related project with reliable agency standards.

Rationale for Ranking: required by LRMP and TSR process

Additional Benefits: improved public acceptance of forest practices

Partnerships: some potential for FN employment

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$0	$0,000	$10,000	$0,000	$0,000	$10,000
mapsheets	**Units**	mapsheets	mapsheets	mapsheets	mapsheets	mapsheets	mapsheets
0	**Goals**	0	0	12 mapsheets	0	0	12 mapsheets

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title: Visual Inventory Update**	**Activity #: LVA4**

Description of the Activity: To update old visual inventory to new RIC standards and provide files for distribution to licensees and use in planning processes.

Status:	"New" OR Years in Progress?: New	Priority Comments?: High - current inventory is greater than 10 years out of date.

Location: Various corridors throughout TSA.

Management Unit: Lillooet TSA

Potential Lead Proponent: Ainsworth

Objectives: To ensure that previously completed inventories are accurate and reliable for use in strategic planning and TSR.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR = 3	NTRS = 2	LRMP = 5	RIC = 5	Timing = 2	Total = 17

Benefits & Ranking Criteria:

Timber Supply Review: **Up-to-date info is required for TSR**

Non-Timber Resource Strategies:

LRMP: **Visual management and Visually Sensitive Area update is required by LRMP**

Other: Old visual inventories are not to new RIC standards.

Rationale for Ranking: required by LRMP and TSR process

Additional Benefits: improved public acceptance of forest practices

Partnerships: some potential FN employment

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0	**Costs ($$)**	$0	0	0	0	$14,000	$14,000
mapsheets	**Units**	mapsheets	mapsheets	mapsheets	mapsheets	mapsheets	mapsheets
0	**Goals**		0	0	0	14 mapsheets (Hwy 40)	14 mapsheets (Hwy 40)

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: VRI	**Title: Phase 2 Sampling**	**Activity #: LVRI1**

Description of the Activity:
Completion of 50 Phase 2 permanent samples in 2002 in addition to the 50 being done in 2001. The samples will be used to adjust or confirm volumes in specific timber types to within a 10% sampling error for AAC determination and statistical accuracy for other strategic planning processes such as LRMP. When completed the work need not be repeated for a significant number of years. As permanent samples, these can be re-measured as the need arises.

Status:	"New" OR Years in Progress?: Yr 2 of 2	Priority Comments?: To complete phase 2 sampling started last year.

Location: Throughout Lillooet TSA

Management Unit: Lillooet TSA

Potential Lead Proponent: Ainsworth

Objectives: To provide statistical validity to previously completed vegetation inventories while establishing permanent samples which will monitor changes in forest structure and biodiversity.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
50 samples	2001
50 samples	2002

Benefits & Ranking Criteria:

TSR = 7	**NTRS = 5**	**LRMP = 7**	**RIC = 5**	**Timing = 5**	**Total = 29**

Benefits & Ranking Criteria:

Timber Supply Review: A direct need in TSR to obtain a statistically adjusted database to calculate harvest forcast.

Non-Timber Resource Strategies: An indirect but strong link to NTRS through monitoring forest change and biodiversity which has implications on wildlife, water and fish.

LRMP: An indirect but strong link to LRMPs. Provides certainty around the LRMP scenarios involving timber volumes, and the 'monitoring' aspects can be used as benchmarks for sustainability and a measure of progress toward achieving LRMP goals.

Other: A carry-over project with existing agency standards.

Rational for Ranking: Certainty of knowledge on reliability specifically required by CF. Indirect but strong links to both NTRS and LRMP. Will completely resolve issue when completed.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$75,000	**Costs ($$)**	$75,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: VRI	**Title: NVAF Sampling**	**Activity #: LVRI2**

Description of the Activity:
Sample 100 NVAF trees in Lillooet TSA to improve estimates of net timber volumes through providing better estimates of decay and taper factors. Suggested as a follow up work to Phase 2 sampling. Deliver in 2003 rather than 2002.

Status:	"New" OR Years in Progress?: NEW	Priority Comments?: Requested in previous RMP and directly linked to LVRI1.

Location: Throughout TSA

Management Unit:
Lillooet TSA

Potential Lead Proponent: Ainsworth??

Objectives: To provide statistical validity to previously completed vegetation inventories while establishing permanent samples which will monitor changes in forest structure and biodiversity.

Tasks, Deliverables, Targets & Milestones:
Sample 100 NVAF trees.

Target Dates:
2003

Benefits & Ranking Criteria:

TSR = 7	NTRS = 1	LRMP = 7	RIC = 5	Timing = 1	Total = 21

Benefits & Ranking Criteria:

Timber Supply Review: A direct need in TSR to obtain a statistically adjusted database to calculate harvest forcast.

Non-Timber Resource Strategies: Indirect links to NTRS in that measurements of decay is useful information for predicting impact on insect and animal interactions for species requiring certain types of decay.

LRMP: An indirect but strong link to LRMPs. Provides certainty around the LRMP scenarios involving timber volumes as related to timber net-downs.

Other: A new project with existing agency standards

Rational for Ranking: Strong TSR and LRMP connections but not NTRS. Not a "specifically mentioned" requirement of LRMPs or TSR but understood as a NEED in developing those strategic planning processes.

Additional Benefits:

Partnerships:

Comments: Not likely to be completed in 2002 but should try for 2003.

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0,000	**Costs ($$)**	$0	$0,000	$0,000	$0,000	$0,000	$75,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Siska Mowhokam WQ**	**Activity #: LWQ1**

Description of the Activity: Paired watershed water quality study Siska Creek and Mowhokam Creek

Status:	"New" OR Years in Progress?: Three years in progress	Priority Comments?:

Location: Lillooet District

Management Unit: Lillooet TSA

Potential Lead Proponent: Teal Cedar Products Ltd.

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analyzed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality in an undeveloped watershed (Siska) and compare that with water quality in a developed watershed (Mowhokam). Water quality objectives will be established for Siska which is used for drinking water by the Siska Indian Band.

Tasks, Deliverables, Targets & Milestones: Three years of water sampling will be complete as of September 30/01. To complete the project, the data collected over the previous three years need to be combined into one final water quality assessment and objectives report

Target Dates: Report completed March 31, 2003.

Benefits & Ranking Criteria:

TSR =4	**NTRS = 7**	**LRMP =6**	**RIC = 4**	**Timing =5**	**Total =26**

Benefits & Ranking Criteria:

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be an important component of the Water Resource Strategy.

LRMP: Lillooet LRMP is not complete. However, setting of water quality objectives for drinking water sources is specifically mentioned in the OKSLRMP and will likely be a key component of the future Lillooet LRMP.

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships: Siska Indian Band

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$92,424	**Costs ($$)**	$14,000	$0	$0	$0	$0,000	$14,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Lillooet - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Siska Mowhokam Sediment Budget**	**Activity #: LWQ2**

Description of the Activity: Paired sediment budget study in Siska Creek and Mowhokam Creek

Status:	"New" OR Years in Progress?: New	Priority Comments?:

Location: Lillooet District **Management Unit**: Lillooet TSA

Potential Lead Proponent: Teal Cedar Products Ltd.

Objectives: To augment the Siska/Mowhokam paired watershed water quality study by determining sediment sources and sediment budgets for the two watersheds.

Tasks, Deliverables, Targets & Milestones: Study would be conducted during 2002/03 and the results would be included in the final water quality report.	**Target Dates:** Report completed March 31, 2003.

Benefits & Ranking Criteria:

TSR =4	**NTRS = 7**	**LRMP =4**	**RIC = 4**	**Timing =2**	**Total =21**

Benefits & Ranking Criteria:

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be an important component of the Water Resource Strategy.

LRMP: There is no LRMP for the Lillooet Management Unit

Other:. Approved (published) RIC standards and reliable agency standards would apply to all components of the deliverables.

Rational for Ranking:

Additional Benefits:

Partnerships: Siska Indian Band

Comments: Not likely to be delivered in 2002 but should try for 2003

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$0	$14,000	$0	$0	$0,000	$14,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Lillooet - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Intlpam Creek**	**Activity #: LWQ3**

Description of the Activity: Water quality study in the Intlpam Creek community watershed.

Status:	"New" OR Years in Progress?: One year in progress	Priority Comments?:

Location: Lillooet Forest District

Management Unit: Lillooet TSA

Potential Lead Proponent: Teal Cedar products Ltd.

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: One year of data collection will be complete March 31/02. Two more years of data collection are required to be followed by preparation of the final report.

Target Dates: Project will be complete March 31, 2004.

Benefits & Ranking Criteria:

TSR = 4	NTRS =7	LRMP =6	RIC = 4	Timing =5	Total =26

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Lillooet LRMP is not complete. However, setting of water quality objectives for drinking water sources is specifically mentioned in the OKSLRMP and will likely be a key component of the future Lillooet LRMP.

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if two more years of data collection and final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships: Lytton Indian Band

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$17,500	**Costs ($$)**	$17,500	$17,500	$0	$0	$0,000	$35,000
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Lillooet - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title:** Lytton Creek	**Activity #:** LWQ4

Description of the Activity: Water quality study in the Lytton Creek community watershed.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Lillooet Forest District

Management Unit: Lillooet TSA

Potential Lead Proponent: Teal Cedar products Ltd.

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: If the project commences April 1, 2002, three years of water sampling will be complete as of July 31, 2005 followed by preparation of the final water quality assessment and objectives report.

Target Dates: Project will be complete March 31, 2006.

Benefits & Ranking Criteria:

TSR =3	**NTRS =7**	**LRMP =5**	**RIC = 4**	**Timing =2**	**Total =21**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Lillooet LRMP is not complete. However, setting of water quality objectives for drinking water sources is specifically mentioned in the OKSLRMP and will likely be a key component of the future Lillooet LRMP.

Other:. Approved (published) RIC standards apply to all components of the deliverables.

Rational for Ranking:

Additional Benefits:

Partnerships: Lytton Indian Band

Comments: Not likely to start in 2002. Expect starting in 2004 more realistic.

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$0	$0	$17,500	$17,500	$17,500	$52,500
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Spotted Owl Inventory**	**Activity #: LWWH1**

Description of the Activity: Continued inventory for spotted owls and nest sites. Refinement of habitat information and management areas

Status:	**"New" OR Years in Progress?:** Ongoing	**Priority Comments:** Red listed species. Information will help define habitat. Project will build on knowledge gained in past years.

Location: Throughout priority areas identified in previous work.	**Management Unit**: Lillooet

Potential Lead Proponent: Ainsworth

Objectives: Confirm presence/absence of spotted owls in the various watersheds. Locate nest sites. Refine home range areas. Document habitat relationships.

Tasks, Deliverables, Targets & Milestones: Carryout inventory as per RIC standards. Report, database and map product. **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 7	**NTRS = 5**	**LRMP = 7**	**RIC = 4**	**Timing = 5**	**Total = 28**

Rationale for Ranking: Specifically mentioned in TSR. Spotted Owl is being considered for designation as 'Identified Wildlife' in volume two of the Identified Wildlife Management Strategy. Spotted Owl inventory is identified as a specific need in the draft LRMP. Lack of completion is delaying critical decisions and current investment could be lost if project is not continued. Spotted Owl is a Red –listed species.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$55,000	**Costs ($$)**	$55,000	$55,000	$55,000	$40,000	$10,000	$215,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Lillooet - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Tailed Frog Inventory**	**Activity #: LWWH 2**

Description of the Activity: Inventory of suitable streams to determine presence/absence of Tailed Frogs. Inventory will help to delineate the distribution of Tailed Frogs within the district.

Status:	**"New" OR Years in Progress?:** Year 2 (Previous work done in 2000)	**Priority Comments:** Blue listed species. 1 year of inventory has been completed. More information is required to determine distribution.

Location: Through out Lillooet district.	**Management Unit:** Lillooet Forest District

Potential Lead Proponent: Ministry of Water, Land and Air Protection

Objectives: Determine the presence and distribution of Tailed Frogs within identified watersheds within the Lillooet Forest District and to identify and describe stream habitats used by Tailed Frog tadpoles.

Tasks, Deliverables, Targets & Milestones: Inventory of remaining potential tailed frog streams. Report summarising results	**Target Dates:** Dec. 15, 2006

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 9**	**LRMP = 6**	**RIC = 3**	**Timing = 2**	**Total = 23**

Rationale for Ranking: Not mentioned in TSR, but info. required for future TSR. Should resolve a major component of the information gap. Lilloet draft LRMP objective: 'On a priority basis carry out inventories, research, etc for species at risk.' Inventory of tailed frog is required for effective implementation of the Identified Wildlife Management Strategy. Lack of completion is delaying critical decisions and will result in an incomplete product.

Additional Benefits:

Partnerships:

Comments: Not likely to commence until about year 2006.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$0,000	0	0	0	$25,000	$25,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Lillooet - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Goat Inventory**	**Activity #: LWWH3**

Description of the Activity: Inventory of selected goat herds within the Lillooet TSA. Some populations are hunted under LEH others are not. These herds have historic and new road access within or in close proximity to their habitat.

Status:	New	**Priority Comments:** The priority species for inventory are goat, mule deer, elk, sheep, moose, and white tailed deer.

Location: Cadwallader, Hurley River, Cayoosh, Stein	**Management Unit**: Lillooet TSA

Potential Lead Proponent: WLAP/J.S. Jones, Small Business, Ainsworth,

Objectives: To inventory goat populations and monitor trends. Inventories will also ensure the AAH is sustainable

Tasks, Deliverables, Targets & Milestones:	**Target Dates**
Complete an accurate count of goats within each herd.	Inventory July/August Write up fall

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 8**	**LRMP = 5**	**RIC = 4**	**Timing = 2**	**Total =22**

Rationale for Ranking:
Not mentioned in TSR, but info will be required for future TSRs. This activity should resolve a major component of the information gap. Maintaining and enhancing goat populations is mentioned as a specific goal of the draft Lillooet LRMP. Inventory is required to achieve LRMP goals and the objectives of the NTRS, 'Wildlife Inventory Strategy for Ungulates and Game Species.' This is a new project. Lack of completion will delay critical decisions regarding the AAH and access strategies. RIC standards apply to all critical components.

Additional Benefits:
Inventory information can be used by other agencies that regulate CBR and mining.

Partnerships:

Comments: Goats are vulnerable to timber management particularly road development and hunting. Existing and future access into goat habitat makes goat vulnerable to hunting and poaching.
Note likely to start in 2002 and probably not till 2006.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$0,000	$0,000	$0,000	$0,000	$50,000	$50,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

A1.4 Merritt TSA

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: Weyco Consolidated Project**	**Activity #: MCH1**

Description of the Activity: AIS/ Trails (USIB, NTA, UNB, LSIB)

Status:	**"New" OR Years in Progress?**: 1-3	**Priority Comments?**: High priority with IFPA linkage, partnerships and cultural information

Location: Merritt TSA – FN traditional use areas within the Merritt TSA	**Management Unit**: Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To fulfill information requirements in meeting aboriginal and forest development needs

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in prioritising new areas for studying. The focus is to collect information regarding heritage resources and aboriginal information.	**Target Dates:** March 2007

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 4**	**Total = 30**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR -Higher areas of interest may be considered in volume adjustments

NTRS – High areas of interest may be considered for Non Timber Resource Values (ethnobotanical values, heritage values)

LRMP – Information obtained may be used to address aboriginal landbase issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships: Project provides continued partnership between the Ministry of Forest, Weyerhaeuser and the USIB, NTA, UNB and LSIB.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$160,000	**Costs ($$)**	$180,000	$210,000	$190,000	$180,000	$180,000	$940,000
ha	**Units**	ha	ha	ha	ha	ha	ha
80,000	**Goals**	100,000	100,000	100,000	100,000	100,000	500,000

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: AIS – Missezula Trails & Sites**	**Activity #: MCH1**

Description of the Activity: Locating and mapping archaeological/heritage sites & trails within the Missezula Lake/Summers Creek landscape filling in gap archaeology and GPSng of known sites through oral history. This project will further extend, test, and evaluate the Nlakapmux strategic plan by further use of its cultural methodology.

Status:	**"New" OR Years in Progress?**: New project with continuation from previous year	**Priority Comments?**: Considered very important by the NTA member bands.

Location: North of Missezula Lake where Bluey Lake project left off, and continuing south on West side of Missezula Lake to Summers Creek and along Summers Creek to its confluence with the Similkameen near Princeton.	**Management Unit**: Merritt TSA

Potential Lead Proponent: Weyerhaeuser NB **project included in the Weyerhaeuser consolidated project**

Objectives:

1. To extend the existing archaeological strategic plan and further develop, test and evaluate its methodology and approach using Missezula Lake/Summers creek as a test area AIS.

2. To fill the identified archaeological gap within the Missezula Lake/Summers Creek landscape by locating and mapping known and new archaeological/heritage sites.

Tasks, Deliverables, Targets & Milestones: Complete an AIS of the test area locating and mapping archaeological/heritage sites. An AIS report and an evaluation report of the strategic plan/methodology will be produced.	**Target Dates:** 1 Apr 2002 thru 31 Mar 2003

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review: Falls within the priority one category and will directly contribute to the TSR.
Non-Timber Resource Strategies:
LRMP: Will directly contribute to the planning within the LRMP.
Other:.A project with reliability in standards.

Rational for Ranking:

Additional Benefits: The overall benefit will be in the planning stages for FDP's and for the LRMP directly. Indirectly a template for First Nations Archaeological approach will be developed in the long range with implications of future use in other TSA's.

Partnerships: Members from the six Nlakapmux member bands of the NTA will be used as crew members along with the data gathered from the Nlakapmus elders and advisors. Some direct elder participation is anticipated. Weyerhaeuser will be included in the planning stages and any further archaeological/heritage protection discussions with the NTA.

Comments: A portion of MCH1 listed above.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
	Costs	$0	$0	$0	$0	$0	$0
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: AIS – Boston Bar Trail**	**Activity #: MCH2**

Description of the Activity: Locating and mapping of the pre-historic Boston Bar Trail and any associated sites and resources for the avoidance of any future impacts or conflicts by timber extraction or future road construction.

Status:	"New" OR Years in Progress?: NEW	Priority Comments?:

Location: From Coldwater IR 2 (Midday Creek) to Spius Creek junction and down Spius Creek to edge of the MTSA (Maps 92I006 to 92I005 to 92H095 to 92H094 to edge of MTSA)

Management Unit: Merritt TSA

Potential Lead Proponent: Aspen

Objectives: To locate, map and GPS the pre-historic Boston Bar Trail and associated archaeological sites.

Tasks, Deliverables, Targets & Milestones: Location and mapping of the Boston Bar Trail within Aspen operating territory will be completed within this year. A final report on the AIS will be produced at the completion of this project.

Target Dates: Completion of project and report by: 31 Mar 03

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:

Timber Supply Review: Falls within the priority one category and will directly contribute to the TSR..

Non-Timber Resource Strategies: .

LRMP: Will directly contribute to the planning within the LRMP.

Other:.A project with reliability in standards.

Rational for Ranking:

Additional Benefits: The overall benefit will be in the planning stages for FDP's and for the LRMP directly.

Partnerships: Members from the six Nlakapmux member bands of the NTA will be used as crew members along with the data gathered from the Nlakapmus elders and advisors. Some direct elder participation is anticipated. Aspen will be included in the planning stages and any further archaeological/heritage protection discussions with the NTA. **This project is included as a part of the Aspen Planers Cultural heritage project**

Comments:

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Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$10,000	**Costs**	$17,500	$20,000	$30,000	$30,000	$0,000	$97,500
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: AIS – Jim Kelly Crk**	**Activity #: MCH3**

Description of the Activity: Locating and mapping archaeological /heritage sites and trails within the Jim Kelly Creek to Vulch Creek landscape filling in the gaps of archaeology and GPSng of known sites through oral history and located new sites.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?**: Considered very important to NTA member Nlakapmux Bands and fits within the proposed FDP.

Location: That area bordered by the Jim Kelly Creek to the North and Vulch Creek to the South, the MTSA Boundary to the West and the confluence of these creeks to the Tulameen. Other creeks within the area are: Carry Creek, Railroad Creek. This area also includes Treasure Mountain. Definition of this location boundaries will occur at time of project commencement as agreed upon by the NTA and Tolko.	**Management Unit**: Merritt TSA

Potential Lead Proponent: Tolko

Objectives:1. To complete an AIS on the designated area . 2. To fill the identified archaeological gaps within the AIS area by locating and mapping known and new archaeological /heritage sites.

Tasks, Deliverables, Targets & Milestones: Complete AIS of designated area locating and mapping archaeological/heritage sites within the landscape. an AIS report will be produced.	**Target Dates:** 1 Apr 2002 to 31 Mar 2003

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:

Timber Supply Review: Falls within the priority one category and will directly contribute to the TSR.

Non-Timber Resource Strategies:

LRMP: Will directly contribute to the planning within the LRMP.

Other:.A project with reliability in standards.

Rational for Ranking:

Additional Benefits: The overall benefit will be in the planning stages for FDP's and for the LRMP directly.

Partnerships: Members from the six Nlakapmux member bands of the NTA will be used as crew members along with the data gathered from the Nlakapmus elders and advisors. Some direct elder participation is anticipated. Tolko will be included in the planning stages and any further archaeological/heritage protection discussions with the NTA.

Comments: Activity timing fits nicely with TSR & LRMP scheduling.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$50,000	**Costs**	$50,000	$50,000	$50,000	$50,000	$0,000	$200,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH

Title: AIS of Trails for UNIB

Activity #: MCH4

Description of the Activity:

Status:

"New" OR Years in Progress?: Year 2 of a 5 year project

Priority Comments?:

Location:

Management Unit: Merritt TSA

Potential Lead Proponent: Ardew

Objectives:

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$12,750	**Costs ($$)**	$17,500	$17,500	$17,500	$17,500	$0,000	$70,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Fish Studies**	**Activity #: MFFH1**

Description of the Activity:
Predictably model fish distribution and fish habitat capability in the Aspen Operating Area using the Fish Habitat Assessment Tool (FHAT20).

Status:	**"New" OR Years in Progress?:** Fouth year	**Priority Comments:** Completion of streams in 2001-02 the inventories of any outstanding lakes will commence in 2002-2003.

Location: Operating Area.	**Management Unit:** Merritt TSA

Potential Lead Proponent: Aspen Planers Ltd.

Objectives: The objective the Fish Studies activity is to, using a RIC designed Fish Habitat Model, provide statistically valid predictions of fish and fish habitat distribution as well as, fish habitat capability over entire management areas.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Assemble existing electronic databases and mapping products from the completed FFHI activities within the operating area into the FHAT20 model format. Perform field verification of model predictions on watersheds throughout the study area.	Completion of streams in 2001/02 then completion of lakes march 31, 2004

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing**	**Total =**

Rationale for Ranking: Riparian management zones predicted from FHAT20 results will aid in the accuracy of TSR calculations. Fish distribution and habitat capability modelling will aid in reach broad and specific goals outlined in LRMP documents. . Methodologies and deliverables for 1:20,000 FFHI's were developed specifically by the RIC.

Additional Benefits: The benefit of creating statistically valid predictions of fish and fish habitat distribution is the inclusion of those results in regionally planning documents such as Local Area Agreements (LAA). Valid, acceptable predictions of fish distribution will decrease the operational costs to local forest licensees through reducing field and planning costs associated with determining reach by reach riparian management zones.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$160,000	**Costs ($$)**	$12,470	$12,470	$	$	$	$24,940
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Merritt TSA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: : Reconnaissance (1:20,000) Fish and Fish Habitat Inventory**	**Activity #: MFFH2**

Description of the Activity:

Reconnaissance (1:20,000) Fish and Fish Habitat Inventory (FFHI) within the Timber Supply Area. This activity is designed to fill knowledge gaps related to the distribution of fish and fish habitat throughout the Kamloops Forest Region as specified by RMP Issue 1. Inventory procedures within this area are to follow procedures outlined in the *Reconnaissance (1:20,000) Fish and Fish Habitat Inventory Standards and Procedures* manual.

Status:	**"New" OR Years in Progress?:** 4 years in progress.	**Priority Comments:**

Location: Merritt TSA	**Management Unit:** Merritt

Potential Lead Proponent: Tolko Industries Ltd.

Objectives: Conduct a Reconnaissance (1:20,000) Fish and Fish Habitat Inventories to determine the distribution of fish and fish habitat to fill data gaps identified by the FHAT 20 model.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Conduct FFHI Phases 1-3 (historic data collection, watershed classification and pre-field planning preparation) on the entire study area. Conduct FFHI Phase 4-6 (field data collection, data analysis and report production) on the study area.	

Benefits & Ranking Criteria: (from plan drivers)

TSR = 7	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

The distribution and composition of fish and fish habitat within the Kamloops Forest Region is required to fill knowledge gaps outlined as issues within regional Timber Supply Review (riparian classification), LRMP documents, the Non-Timber Resource Strategy and within the MWLAP and MSRM Fisheries Strategic Plans. Reconnaissance level fish and fish habitat distribution information is also required for local management planning such as forest licensees operation planning. Methodologies and deliverables for 1:20,000 FFHI's were developed specifically by the RIC.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
	Costs	$40,000	$40,000	$40,000	$20,000	$	$140,000
ha	**Units**	ha	ha	ha	Ha	ha	ha
	Goals						

Merritt TSA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: F&FH	**Title: Species and Population Specific Inventory**	**Activity #: MFFH3**

Description of the Activity:
The purpose of the *Species and Population Specific Inventory* activity is to fill knowledge gaps related to the distribution, abundance, and current status of various species within the Upper Nicola watershed. Information collected under this activity will provide more detail in the current status, distribution and location of critical habitat of regionally important fish species.

Status:	**"New" OR Years in Progress?:** NEW	**Priority Comments:** Priority at the FDP level.

Location: Nicola River upstream of Douglas Lake

Management Unit: Merritt TSA

Potential Lead Proponent: Ardew

Objectives:
The objective of the *Species and Population Specific Fish Inventory* is to increase the quantity and quality of information on various fish species populations within the Nicola River above Douglas Lake. Data on this population are required by regional biologists to implement effective management strategies and by stakeholders and forest licensees to aid in the construction of effective development and operational plans.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Sampling data statistics and maps to be delivered by March 31 of each year.	March 2005

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	**NTRS = 8**	**LRMP =7**	**RIC =4**	**Timing3**	**Total =30**

Rationale for Ranking:

Additional Benefits: Information collected through detailed fisheries investigations will aid in the formation of local and regional land use strategies, will contribute the information base required for predictive fish distribution modelling and provide detail needed in operational level development plans.

Partnerships: **Upper Nicola Band**

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$	**Costs ($$)**	$5000	$5000	$5000	$	$	$15,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: FFH – Upper Similkameen Tribs.**	**Activity #: MFFH4**

Description of the Activity: Phase 4-6 FFHI for the Upper Similkameen Tribs.

Status:	**"New" OR Years in Progress?:** Year 2	**Priority Comments?:** Partnership project with NTA

Location: Merritt TSA – Upper Similkameen Tribs.	**Management Unit:** Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To complete the phase 4-6 activities under the Reconnaissance 1:20,000 FFHI

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing information regarding fish distribution and stream class.	**Target Dates:** March 2003

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 3**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR –local consideration may be made to volume adjustments in maintaining critical fish habitat
NTRS – High interest area regarding fisheries values
LRMP – Information obtained may be used to address sensitive stream temperature issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships: Project provides continued partnership between the NTA, Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$80,000	**Costs ($$)**	$135,000					135,000
Report	**Units**	Report		ha	ha	ha	Report
1	**Goals**	1					1

Merritt TSA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: F&FH	**Title: FHAT Modeling**	**Activity #: MFFH6**

Description of the Activity:
Predictably model fish distribution and fish habitat capability using the Fish Habitat Assessment Tool (FHAT20).

Status:	"New" OR Years in Progress?: 3 years in progress	**Priority Comments:**

Location: Merritt TSA.	**Management Unit**: Merritt

Potential Lead Proponent: Tolko Industries Ltd.

Objectives: The objective the Fish Studies activity is to, using a RIC designed Fish Habitat Model, provide statistically valid predictions of fish and fish habitat distribution as well as, fish habitat capability over entire management areas.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Assemble existing electronic databases and mapping products from the completed FFHI activities into the FHAT20 model format. Perform field verification of model predictions on watersheds throughout the study area.	

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing**	**Total =**

Rationale for Ranking: Riparian management zones predicted from FHAT20 results will aid in the accuracy of TSR calculations. Fish distribution and habitat capability modelling will aid in reach broad and specific goals outlined in LRMP documents. . Methodologies and deliverables for 1:20,000 FFHI's were developed specifically by the RIC.

Additional Benefits: The benefit of creating statistically valid predictions of fish and fish habitat distribution is the inclusion of those results in regionally planning documents such as Local Area Agreements (LAA). Valid, acceptable predictions of fish distribution will decrease the operational costs to local forest licensees through reducing field and planning costs associated with determining reach by reach riparian management zones.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$	**Costs ($$)**	$20,000	$20,000	$15,000	$15,000	$	$70,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: FFH – FHAT20 Modelling**	**Activity #: MFFH7**

Description of the Activity: Test FHAT20 Modeling on existing inventories

Status:	**"New" OR Years in Progress?:** Year 2	**Priority Comments?:** Fill in information gaps with existing inventories

Location: Merritt TSA –	**Management Unit:** Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: Field truth inventory output from the FHAT20 model

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing information regarding fish distribution and stream class.	**Target Dates:** March 2005

Benefits & Ranking Criteria:

TSR = 4	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 5**	**Total = 33**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR –local consideration may be made to volume adjustments in maintaining critical fish habitat
NTRS – High interest area regarding fisheries values
LRMP – Information obtained may be used to address sensitive stream temperature issues in the creation of a Merritt TSA LRMP and local area agreements

Additional Benefits:

Partnerships: Project provides continued partnership between Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$20,000	**Costs (SS)**	$10,000	$40,000	$40,000			$90,000
Report	**Units**	Report	Report	Report	ha	ha	Report
1	**Goals**	1	1	1			1

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: : Reconnaissance (1:20,000) Fish and Fish Habitat Inventory**	**Activity #: MFFH8**

Description of the Activity:
Reconnaissance (1:20,000) Fish and Fish Habitat Inventory (FFHI) of the Upper Nicola watershed within the Timber Supply Area. This activity is designed to fill knowledge gaps related to the distribution of fish and fish habitat throughout the Kamloops Forest Region as specified by RMP Issue 1. Inventory procedures within this area are to follow procedures outlined in the *Reconnaissance (1:20,000) Fish and Fish Habitat Inventory Standards and Procedures* manual.

Status:	"New" OR Years in Progress?: NEW.	**Priority Comments: Priority at FDP level.**

Location: The Nicola River above Douglas Lake.	**Management Unit:** Merritt TSA

Potential Lead Proponent: The lead Proponents of the proposed 1:20,000 FFHI activity is Ardew

Objectives: Conduct a Reconnaissance (1:20,000) Fish and Fish Habitat Inventories to determine the distribution of fish and fish habitat within the Upper Nicola watershed.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Conduct FFHI Phases 1-3 (historic data collection, watershed classification and pre-field planning preparation) on the entire study area. Conduct FFHI Phase 4-6 (field data collection, data analysis and report production) on the study area.	March 2003

Benefits & Ranking Criteria: (from plan drivers)

TSR = 7	**NTRS = 6**	**LRMP = 8**	**RIC = 4**	**Timing = 3**	**Total = 28**

Rationale for Ranking:
The distribution and composition of fish and fish habitat within the Kamloops Forest Region is required to fill knowledge gaps outlined as issues within regional Timber Supply Review (riparian classification), LRMP documents, the Non-Timber Resource Strategy and within the MWLAP and MSRM Fisheries Strategic Plans. Reconnaissance level fish and fish habitat distribution information is also required to for local management planning such as forest licensees operation planning. Methodologies and deliverables for 1:20,000 FFHI's were developed specifically by the RIC.

Additional Benefits:

Partnerships: Upper Nicola Band

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
	Costs ($$)	$5000	$5000	$5000	$0	$	$15,000
ha	**Units**	ha	ha	ha	Ha	ha	ha
	Goals						

Merritt TSA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: FISH Pop. Recce**	**Activity #: FFH9**

Description of the Activity: Population and distribution reccie's

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:** Fill in information gaps with existing inventories

Location: Merritt TSA –	**Management Unit:** Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: Fish distributions and populations

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** March 2007

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 3**	**Timing = 3**	**Total = 28**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –local consideration may be made to volume adjustments in maintaining critical fish habitat
NTRS – High interest area regarding fisheries values
LRMP – Information obtained may be used to address sensitive stream temperature issues in the creation of a Merritt TSA LRMP and local area agreements

Additional Benefits:

Partnerships

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	$25,000	$50,000	$130,000	$145,000	$160,000	$510,000
Report	**Units**	Report	study	study	study	study	study
0	**Goals**	0	1	1	1	1	1

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Species and Population Specific Inventory**	**Activity #: MFFH10**

Description of the Activity:
The purpose of the *Species and Population Specific Inventory* activity is to fill knowledge gaps related to the distribution, abundance, and current status of Bull Trout within Aspen Planers Operating area.
Information collected under this activity will provide more detail in the current status, distribution and location of critical habitat of regionally important fish species.

Status:	**"New" OR Years in Progress?:** Third year	**Priority Comments:** Necessary to obtain distribution of Bull trout within streams in Aspen Planers operating area

Location: Operating area

Management Unit: Merritt

Potential Lead Proponent: Aspen Planers Ltd.

Objectives:
The objective of the *Species and Population Specific Fish Inventory* is to increase the quantity and quality of information on Bull Trout populations within the operating area. Data on this population are required by regional biologists to implement effective management strategies and by stakeholders and forest licensees to aid in the construction of effective development and operational plans.

Tasks, Deliverables, Targets & Milestones:

Target Dates:
Project completion by March 31, 2005

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing**	**Total =**

Rationale for Ranking:

Additional Benefits: Information collected through detailed fisheries investigations will aid in the formation of local and regional land use strategies, will contribute the information base required for predictive fish distribution modelling and provide detail needed in operational level development plans.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$4,000	**Costs ($$)**	$20,000	$25,000	$30,000			$75,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: Growth and Yield**	**Activity #: MGY1**

Description of the Activity: Installation of growth and yield plots in representative areas.

Status:	**"New" OR Years in Progress?**: NEW	**Priority Comments?**: High priority for TSR and LRMP

Location: Second growth pine and spruce stands within the Merritt District.	**Management Unit**: Merritt TSA

Potential Lead Proponent: Ardew

Objectives: To provide verifiable statistical growth and yield information.

Tasks, Deliverables, Targets & Milestones: Survey results due at the end of each fiscal year.	**Target Dates:** March 31

Benefits & Ranking Criteria:

TSR = 8	**NTRS = 2**	**LRMP =0**	**RIC = 5**	**Timing =0**	**Total = 15**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments: Note – Establishment of PSPs during 2002 is contrary to the recommended strategy. Please read the regional strategy statement (template 2).

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$5000	$5,000	$5,000	$5,000	$0	$20,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: OGMA Identification**	**Activity #: MRP1**

Description of the Activity: Old Growth Management Identification within operating area

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Operating Area	**Management Unit:** Merritt TSA

Potential Lead Proponent: Aspen Planers Ltd.

Objectives: To establish identification of and assess potential OGMA patches throughout the operating area.

Tasks, Deliverables, Targets & Milestones: Annual report	**Target Dates:** Project completion march 31, 2006

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$10,000	$10,000	$12,825	$12,825	$	$45650
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Landscape unit Planning**	**Activity #: MRP2**

Description of the Activity: Patch size distribution and OGMA within landscape units.

Status:	**"New" OR Years in Progress?:** NEW	**Priority Comments?:**

Location: Coldwater, Otter, Tulameen, and Upper Nicola River LU's

Management Unit: Merritt TSA

Potential Lead Proponent: Tolko Industries Ltd.

Objectives:
- incorporation of proposed FDP information into patch size distribution;
- analysis of potential Old Growth Management areas - need to ensure co-ordination with IFPA to minimize duplication;
- refinement and training using the model. Exporting to various mapping platforms;
- Field survey/verify/document/modify a proportion of Merritt OGMA candidates

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR = 8	**NTRS =8**	**LRMP =10**	**RIC =**	**Timing =3**	**Total =29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments: Extension of the work previously carried out by the Regional Ecologist on the Landscape Units within the Merritt TSA.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$000	**Costs ($$)**	$60,000	$20,000	$0,000	$0,000	$0,000	$80,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: OGMA's**	**Activity #: MRP3**

Description of the Activity: Field confirmation of Proposed OGMA's

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:** Higher level planning

Location: Merritt TSA – Weyerhaeuser Operating Area	**Management Unit:** Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To ground truth OGMA's and incorporate strategies into development plans.

Tasks, Deliverables, Targets & Milestones: New Project.	**Target Dates:** March 2006

Benefits & Ranking Criteria:

TSR = 4	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 4**	**Total = 32**

Benefits & Ranking Criteria:
Timber Supply Review: Information required by TSR process
Non-Timber Resource Strategies: Completes priority biodiversity
LRMP: Information required by LRMP table
Other:.

Rational for Ranking: TSR –local consideration may be made to volume adjustments in maintaining critical stream temperatures
NTRS – High interest area regarding old growth management strategies
LRMP – Information obtained may be used to address old growth management issues in the creation of a Merritt TSA LRMP.

Additional Benefits: Will complete the priority biodiversity commitments for weyerhaeuser operating areas.

Partnerships: Project may provide the opportunity to partner withe Aspen Planers, Tolko, and local First Nations.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	$9,000	$25,000	$25,000	$15,000		$74,000
Report	**Units**	Report		ha	Ha	ha	Report
1	**Goals**	1					1

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Baseline Woody Debris**	**Activity #: MRP4**

Description of the Activity: Establish measurement plots in undisturbed timber types to quantify the amount of woody debris that exists in an natural stand and document these conditions with plot cards and photographs.

Status:	**"New" OR Years in Progress?:** NEW	**Priority Comments?:** High for TSR, NTRS, and LRMP.

Location: Merritt District covering the various BGC Zones.	**Management Unit:** Merritt TSA

Potential Lead Proponent: Ardew

Objectives: To establish baselines for the woody debris component of the FDP and SP commitments.

Tasks, Deliverables, Targets & Milestones: Target one BGCZ per year. Reports due at the end of each fiscal year.	**Target Dates:** March 31

Benefits & Ranking Criteria:

TSR = 7	**NTRS = 8**	**LRMP =8**	**RIC = 3**	**Timing =3**	**Total =29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$10000	$10,000	$10,000	$10,000	0	$40,000
ha	**Units**	ha	ha	ha	ha	ha	Ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: ST	**Title: Upper Nicola River Temperature**	**Activity #: MST1**

Description of the Activity: Stream temperature study in the Nicola River upstream of Douglas Lake.

Status:	**"New" OR Years in Progress?:** One year in progress	**Priority Comments?:**

Location: Upper Nicola River	**Management Unit:** Merritt TSA

Potential Lead Proponent: Ardew

Objectives: To develop a procedure that can be used to manage logging developments near streams in the dry hot areas of the southern interior a manner that will protect aquatic life and water quality for human consumption. Continuous stream temperature monitoring equipment is installed at strategic locations that are necessary and appropriate to determine low flow baseline water temperatures in logged and unlogged streams to objectively assess the impacts of riparian canopy removal on water temperature and to evaluate the relative importance of elevation, aspect, shading and groundwater influences on stream temperature.

Tasks, Deliverables, Targets & Milestones: One year of stream temperature data sampling will be complete as of March 31/02. Two additional years (summer) of data is needed account for annual differences in the temperature regime, and the final report will follow. The report will include a toolkit will be developed that can be used by foresters and resource managers to better manage impact of logging developments on stream temperatures.	**Target Dates:** Project will be completed March 31, 2005.

Benefits & Ranking Criteria:

TSR = 8	**NTRS = 8**	**LRMP =8**	**RIC = 4**	**Timing =4**	**Total =32**

Timber Supply Review: To be determined locally
Non-Timber Resource Strategies: Not referenced in the WRS but ids a known concern and resolves a component of a knowledge gap for the TSA.
LRMP: There is no LRMP for Merritt TSA
Other:.Approved RIC stsndards plus reliable agency standards apply to all components of the deliverables. Ongoing project is partially complete; current investment will be lost if project not completed.

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$4500	**Costs ($$)**	$6000	$6000	$6000	$0	$0,000	$18000
ha	**Units**	ha	ha	Ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: ST	**Title: Spius / Nicola Stream Temperature**	**Activity #: MST2**

Description of the Activity: Stream temperature study in Spius and at the Spius Creek and Nicola River confluence.

Status:	**"New" OR Years in Progress?**: Third year in progress	**Priority Comments?**:

Location: Spius Creek

Management Unit: Merritt TSA

Potential Lead Proponent: Aspen Planers Ltd.

Objectives: To develop a procedure that can be used to manage logging developments near streams in the dry hot areas of the southern interior a manner that will protect aquatic life and water quality for human consumption. Continuous stream temperature monitoring equipment is installed at strategic locations that are necessary and appropriate to determine low flow baseline water temperatures in logged and unlogged streams to objectively assess the impacts of riparian canopy removal on water temperature and to evaluate the relative importance of elevation, aspect, shading and groundwater influences on stream temperature. Includes the use of hydrometric station on Spius Creek.

Tasks, Deliverables, Targets & Milestones: Three years of stream temperature data sampling will be complete as of March 31/02. This study is also now shifting towards the study of influences of ground water within the watershed. A scientific report is to be completed at the end of this fiscal year to obtain peer review. This study is to continue

Target Dates: Project will continue through 2005/2006 fiscal year

Benefits & Ranking Criteria:

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Not referenced in the WRS but is a known concern and resolves a component of a knowledge gap for the TSA.

LRMP: There is no LRMP for Merritt TSA

Other:.Approved RIC stsndards plus reliable agency standards apply to all components of the deliverables. Ongoing project is partially complete; current investment will be lost if project not completed.

Rationale for Ranking:

Additional Benefits:

Partnerships: WEYERHAEUSER/TOLKO

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$155,000	**Costs ($$)**	$42,855	$30,000	$30,000	$30,000	$0,000	$132,855
ha	**Units**	ha	ha	Ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: ST

Title: Nicola Watershed Water Quality Studies

Activity #: MST3

Description of the Activity: Stream temperature studies in the Coldwater River and Spius Creek watershed and Water quality study in the Kwinshatin Creek community watershed

Status:

"New" OR Years in Progress?: Two/Three years in progress

Priority Comments?:

Location: Nicola Watershed

Management Unit: Merritt TSA

Potential Lead Proponent: Tolko Industries, Nicola Valley Division

Objectives:

- To help develop a procedure that can be used in managing logging developments near streams in the southern interior in a manner that will protect aquatic life and water quality for human consumption. Continuous stream temperature monitoring equipment is installed at strategic locations that are appropriate to determine low flow baseline water temperatures in logged and unlogged streams. Objectively assess the impacts of riparian canopy removal on water temperature and to evaluate the relative importance of elevation, aspect, shading and groundwater influences on stream temperature;
- Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analyzed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set Water Quality Objectives against which future developments or restoration activities can be measured.

Tasks, Deliverables, Targets & Milestones:

- Two years of stream temperature data sampling will be complete as of March 31/02. One additional year (summer) of data is needed account for annual differences in the temperature regime, and the final report will follow. The report will include a toolkit will be developed that can be used by foresters and resource managers to better manage impact of logging developments on stream temperatures;
- Three years of water sampling will be complete as of March 31/02. To complete the project the data collected over the previous three years need to be combined into one final water quality assessment and Water Quality Objectives report.

Target Dates: Project will be completed March 31, 2003.

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Not referenced in the WRS but it is a known concern and resolves a component of a knowledge gap for the TSA. Water quality assessment and objectives for drinking water sources will be an important component of the Water Resource Strategy.

LRMP: There is no LRMP for Merritt TSA

Other: Approved RIC standards plus reliable agency standards apply to all components of the deliverables. Ongoing project is partially complete; current investment will be lost if project not completed.

Rationale for Ranking:

Additional Benefits:

Partnerships: For the Kwinshatin project, the Nicola Tribal Association, for the Spius project, Aspen Planners and Weyerhaeuser Canada

Comments: For the Spius project, Aspen Planners is lead proponent, Tolko and Weyerhaeuser provide contribution funding from their work plans. This Template 3 includes Tolko portion.

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$331,117	**Costs ($$)**	$62,000	$52,000	$0	$0	$0,000	$114,000
ha	**Units**	ha	ha	Ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: ST	**Title: WQQT – Spius Temperature Monitoring**	**Activity #: MST4**

Description of the Activity: Spius Creek Temperature Monitoring

Status:	**"New" OR Years in Progress?:** Year 5	**Priority Comments?:** High priority linkage to local fish hatchery

Location: Merritt TSA – Spius Creek Watershed	**Management Unit:** Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To monitor stream temperatures in evaluating impacts to salmonid fishery values.

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing an information base upon which temperature impacts to Spius Creek can be evaluated against.	**Target Dates:** March 2003

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 3**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –local consideration may be made to volume adjustments in maintaining critical stream temperatures
NTRS – High interest area regarding fisheries values
LRMP – Information obtained may be used to address sensitive stream temperature issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships: Project provides continued partnership between the DFO, Aspen Planers, Tolko, Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$30,000	**Costs ($$)**	$30,000					$30,000
Report	**Units**	Report		ha	ha	ha	Report
1	**Goals**	1					1

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Level C at Juliet Creek and Granite/Heinz Creeks**	**Activity #: MTSM1**

Description of the Activity:
Provide Detailed Terrain Stability Mapping (Level C) to identify unstable or potentially unstable land areas via the character and distribution of surficial materials and the active geomorphic processes affecting the site. Maps are then developed ranking specific areas as having moderate or high potential for landslides or surface erosion. Once completed, the work will not have to be re-done at the same intensity and provides an information base for planning, operations and resource interactions.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location: Juliet Creek, including July Creek and Granite/Heinz Creeks

Management Unit: Merritt TSA

Potential Lead Proponent: Tolko

Objectives: To complete the identification and mapping of unstable or potentially unstable land within the project area for use in strategic planning, AAC determination, and assessments linked to other resource uses.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$17,000	**Costs ($$)**	$40,000	$40,000	$40,000	$40,000	$40,000	$200,000
ha	**Units**	ha	ha	Ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title: Highway Corridor Visuals**	**Activity #: MVA1**

Description of the Activity: Compare the actual visual impact to the actual visual impact.

Status:	**"New" OR Years in Progress?**: second year	**Priority Comments?**: Priority for TSR

Location: Merritt District	**Management Unit**: Merritt TSA

Potential Lead Proponent: Ardew

Objectives: To compare the planned visual impact to the actual impact and assess the VQO results.

Tasks, Deliverables, Targets & Milestones: Report on the results at the end of each fiscal year.	**Target Dates:** March 31

Benefits & Ranking Criteria:

TSR = 9	**NTRS = 8**	**LRMP =8**	**RIC = 4**	**Timing =4**	**Total =33**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$7,500	**Costs ($$)**	$7,500	$10,000	$10,000	$5,000	$8,000	$33,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title:** Hwy 5 - Visual	**Activity #:** MWVA2

Description of the Activity:

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Along highway 5 corridor	**Management Unit:** Merritt TSA

Potential Lead Proponent: Weyco

Objectives: To complete VLI and VQO assessments and ensure that previously completed works are reliable for use in strategic planning.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** 2005

Benefits & Ranking Criteria:

TSR = 4	**NTRS = 10**	**LRMP =10**	**RIC = 4**	**Timing =3**	**Total =31**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other: Ongoing project and reliable agency standards.

Rational for Ranking: Required information in linking higher level plans

Additional Benefits: Complimenting other resource inventories in the Merritt TSA

Partnerships: licensee and Ministry of Forest Initiative

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$8,000	**Costs ($$)**	$5,000	$10,000	$10,000			$25,000
ha	**Units**	ha	ha	ha	ha	ha	ha
1,000,000	**Goals**	1,000,000	1,000,000	1,000,000	0	0	1,000,000

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title: Visuals on Lakes – 7/Yr**	**Activity #: MVA3**

Description of the Activity: Visual inventory assessment.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?**: High at the FDP and TSR level.

Location: Seven different lakes each year within the Merritt District.	**Management Unit**: Merritt TSA

Potential Lead Proponent: Ardew

Objectives: To complete VLI and VQO assessments and ensure that previously completed works are reliable for use in strategic planning.

Tasks, Deliverables, Targets & Milestones: Reports due at the end of each fiscal year.	**Target Dates:** March 31

Benefits & Ranking Criteria:

TSR = 8	**NTRS = 8**	**LRMP =8**	**RIC = 4**	**Timing =3**	**Total =32**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$3,500	$3,500	$3,500	$3,500	$0	$14,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Spahomin/Mellin WQ**	**Activity #: MWQ1**

Description of the Activity: Water quality study in Spahomin Creen and Mellin Creek – tributaries in the Upper Nicola watershed

Status:	"New" OR Years in Progress?: One year in progress	Priority Comments?: High priority at the FDP level.

Location: Spahomin Creek and Mellin Creek	**Management Unit**: Merritt TSA

Potential Lead Proponent: Ardew Wood Products Ltd.

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analyzed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set objectives against which future developments or restoration activities can be measured.

Tasks, Deliverables, Targets & Milestones: One year of water sampling will be complete as of March 31/02.	**Target Dates:** Project completion March 31, 2004.

Benefits & Ranking Criteria:

TSR = 6	**NTRS = 8**	**LRMP =8**	**RIC =5**	**Timing =4**	**Total =31**

Benefits & Ranking Criteria:

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be an important component of the Water Resource Strategy.

LRMP: There is no LRMP for Merritt

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project which is partially complete

Rational for Ranking:

Additional Benefits:

Partnerships: Upper Nicola Band

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$4,000	**Costs ($$)**	$8,500	$8,500	$0	$0	$0,000	$17,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Chataway Creek / and other drainages WQ**	**Activity #: MWQ2**

Description of the Activity: Channel monitoring of Chataway Creek and other drainages

Status:	**"New" OR Years in Progress?:** Third year in progress	**Priority Comments?:**

Location: Chataway Creek / and other drainages	**Management Unit:** Merritt TSA

Potential Lead Proponent: Aspen Planers Ltd.

Objectives: Obtain records of water quality within the Chataway Creek Watershed for the purpose of measuring sediment inputs during the year. The purpose of the activity is to gain knowledge of the present state of water quality and to set objectives against which future developments or restoration activities can be measured.

Tasks, Deliverables, Targets & Milestones: Third year of data collection. This will be an ongoing project to monitor Chataway Creek pre and post development activities.	**Target Dates:** Ongoing through 2005/06

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Important information in determining sediment input from operational works such as timber harvesting, road building and WRP works.

LRMP: There is no LRMP for the Merritt Management Unit

Other:. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$15,550	**Costs ($$)**	$10,000	$10,000	$10,000	$10,000	$0,000	$55,550
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Clapperton Creek / and others WQ**	**Activity #: MWQ3**

Description of the Activity: Establish an access management plan and restoration plan and also establish a channel monitoring project along Clapperton creek and other creeks with the operating area.

Status:	**"New" OR Years in Progress?:** Second year in progress	**Priority Comments?:**

Location: Clapperton Creek

Management Unit: Merritt TSA

Potential Lead Proponent: Aspen Planers Ltd.

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analyzed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set objectives against which future developments or restoration activities can be measured.

Tasks, Deliverables, Targets & Milestones One year of water sampling will be complete as of March 31/02. This project will require up to 5 years of data collection and channel monitoring in order to establish any trends that may occur from pre and post operational works.

Target Dates: Ongoing through 2005-06

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be an important component of the Water Resource Strategy.

LRMP: There is no LRMP for the Merritt Management Unit

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships: Nicola Tribal Council

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$15,000	**Costs ($$)**	$20000	$20000	$20,000	$20,000	$0,000	$80000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: WQQT – Siwash Creek Watershed continuos monitoring**	**Activity #: MWQ4**

Description of the Activity: Siwash Creek watershed hydrometric station

Status:	**"New" OR Years in Progress?**: Year 4 of 5	**Priority Comments?**: Community watershed – domestic water source

Location: Merritt TSA – Siwash Creek watershed

Management Unit: Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To monitor stream quality parameters in planning water quality objectives

Tasks, Deliverables, Targets & Milestones:
The work will continue from previous year's work in providing an information base upon which water quality impacts on Siwash Creek can be evaluated against.

Target Dates:
March 2004

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 3**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR –local consideration may be made to volume adjustments in meeting stream quality objectives
NTRS – High interest area regarding water quality
LRMP – Information obtained may be used to address water quality issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships: This project is lead through Weyerhaeuser for the Ministry of Environment, Lands and Parks – water management division

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$10,000	**Costs ($$)**	$10,000	$10,000				$20,000
Report	**Units**	Report	Report	ha	ha	ha	Report
1	**Goals**	1	1				1

Merritt TSA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: WY	**Title: Water Yield**	**Activity #: MWY1**

Description of the Activity: Installation of water output monitoring systems to quantify the discharge from streams entering the Nicola River above Douglas Lake.

Status:	**"New" OR Years in Progress?:** NEW	**Priority Comments?:** High for Non timber resource and LRMP.

Location: Nicola River above Douglas Lake.	**Management Unit:** Merritt TSA

Potential Lead Proponent: Ardew

Objectives: To establish baselines for the amount of water flowing from the Pennask and Barton Hills watersheds.

Tasks, Deliverables, Targets & Milestones: Reports due at the end of each fiscal year.	**Target Dates:** March 31

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 9**	**LRMP =8**	**RIC = 4**	**Timing =3**	**Total =29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships: Upper Nicola Band

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs**	$7,500	$7500	$7500	$7,500	$	$30,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: WWF – Princeton Elk (USIB partnership)**	**Activity #: MWWH1**

Description of the Activity: Princeton Elk Inventory and monitoring.

Status:	**"New" OR Years in Progress?:** Year 4 of a 4 year project	**Priority Comments?:** Priority at forest development plan level, potential LRMP

Location: Merritt TSA

Management Unit: Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To monitor Elk movement and habitat use for better managing herds with regards to forest development planning

Tasks, Deliverables, Targets & Milestones:
The work will continue from previous year's work in providing an information base upon which Elk distribution and habitat needs are identified.

Target Dates: March 2003

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 3**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR –local consideration may be made to volume adjustments in maintaining critical habitat
NTRS – High interest area regarding Elk habitat values
LRMP – Information obtained may be used to address sensitive habitat use issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships: Project provides continued partnership between the Upper Similkameen Indian Band, Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$100,000	**Costs ($$)**	65,000	15,000				$80,000
Report	**Units**	Report	Report	ha	ha	ha	Report
1	**Goals**	1	1				1

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: WWH – Goshawk Inventory (USIB partnership)**	**Activity #: MWWH2**

Description of the Activity: Goshawk Inventory.

Status:	**"New" OR Years in Progress?:** Year 3 of a 3 year project	**Priority Comments?:** Priority at forest development plan level, potential LRMP

Location: Merritt TSA

Management Unit: Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To identify goshawk habitat and habitat use for better managing the species with regards to forest development planning

Tasks, Deliverables, Targets & Milestones:
The work will continue from previous year's work in providing an information base upon which goshawk distribution and habitat needs are identified.

Target Dates:
March 2004

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 3**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR –local consideration may be made to volume adjustments in maintaining critical habitat
NTRS – High interest area regarding goshawk habitat values
LRMP – Information obtained may be used to address sensitive habitat use issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships: Project provides continued partnership between the Upper Similkameen Indian Band, Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$40,000	**Costs ($S)**	40,000	$40,000				$80,000
Report	**Units**	Report	Report	ha	ha	ha	Report
1	**Goals**	1	1				1

Merritt TSA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: WWH –Tailed Frog**	**Activity #: MWWH3**

Description of the Activity: Tailed Frog

Status:	**"New" OR Years in Progress?:** Year 2	**Priority Comments?:** Priority at forest development plan level, potential LRMP

Location: Merritt TSA	**Management Unit:** Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To identify tailed frog habitat and habitat use for better managing the species with regards to forest development planning

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing an information base upon which tailed frog distribution and habitat needs are identified.	**Target Dates:** March 2004

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 3**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR –local consideration may be made to volume adjustments in maintaining critical habitat
NTRS – High interest area regarding tailed frog habitat values
LRMP – Information obtained may be used to address sensitive habitat use issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships: Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$10,000	**Costs ($$)**	10,000	$10,000				$20,000
Report	**Units**	Report	Report	ha	ha	ha	Report
1	**Goals**	1	1				1

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: WWH – Ungulate Use Inventory**	**Activity #: MWWH4**

Description of the Activity: Ungulate Use Inventory

Status:	**"New" OR Years in Progress?:** Year 2	**Priority Comments?:** Priority at forest development plan level, potential LRMP

Location: Merritt TSA

Management Unit: Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To identify Moose/Mule Deer habitat and habitat use for better managing the species with regards to forest development planning

Tasks, Deliverables, Targets & Milestones:
The work will continue from previous year's work in providing an information base upon which Moose/Mule Deer distribution and habitat needs are identified.

Target Dates:
March 2004

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 3**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –local consideration may be made to volume adjustments in maintaining critical habitat
NTRS – High interest area regarding Moose/Mule Deer habitat values
LRMP – Information obtained may be used to address sensitive habitat use issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships: Project provides continued partnership between the local bands, Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$30,000	**Costs ($$)**	40,000	75,000				$115,000
Report	**Units**	Report	Report	ha	ha	ha	Report
1	**Goals**	1	1				1

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: WWH – Mountain Beaver**	**Activity #: MWWH5**

Description of the Activity: Mountain Beaver

Status:	"New" OR Years in Progress?: Year 3	Priority Comments?: Priority at forest development plan level, potential LRMP

Location: Merritt TSA	**Management Unit**: Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To identify Mountain Beaver habitat and habitat use for better managing the species with regards to forest development planning

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing an information base upon which Mountain Beaver distribution and habitat needs are identified.	**Target Dates:** March 2004

Benefits & Ranking Criteria**:**

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 3**	**Total = 29**

Benefits & Ranking Criteria**:**

Timber Supply Review:

Non-Timber Resource Strategies:

LRMP:

Other:.

Rational for Ranking:

TSR –local consideration may be made to volume adjustments in maintaining critical habitat

NTRS – High interest area regarding Mountain Beaver habitat values

LRMP – Information obtained may be used to address sensitive habitat use issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships:, Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$5,000	**Costs ($$)**	5,000	$5,000				$10,000
Report	**Units**	Report	Report	ha	ha	ha	Report
1	**Goals**	1	1				1

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: WWH – R & B Species**	**Activity #: MWWH6**

Description of the Activity: R&B Species

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:** Priority at forest development plan level, potential LRMP

Location: Merritt TSA	**Management Unit:** Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To identify R&B listed species habitat and habitat use for better managing the species with regards to forest development planning

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing an information base upon which R&B listed species distribution and habitat needs are identified.	**Target Dates:** March 2007

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 3**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –local consideration may be made to volume adjustments in maintaining critical habitat
NTRS – High interest area regarding R&B listed species habitat values
LRMP – Information obtained may be used to address sensitive habitat use issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships:, Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	$25,000	$50,000	$145,000	$200,000	$200,000	$620,000
Report	**Units**	Report	Report	Report	Report	Report	Report
1	**Goals**	1					1

Merritt TSA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: WWH – R & B Species**	**Activity #: MWWH7**

Description of the Activity: R&B Species

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:** Priority at forest development plan level, potential LRMP

Location: Merritt TSA	**Management Unit:** Merritt TSA

Potential Lead Proponent: Aspen Planers Limited

Objectives: To identify R&B listed species habitat and habitat use for better managing the species with regards to forest development planning

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing an information base upon which R&B listed species distribution and habitat needs are identified.	**Target Dates:** March 2007

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 10**	**LRMP = 10**	**RIC = 4**	**Timing = 3**	**Total = 29**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –local consideration may be made to volume adjustments in maintaining critical habitat
NTRS – High interest area regarding R&B listed species habitat values
LRMP – Information obtained may be used to address sensitive habitat use issues in the creation of a Merritt TSA LRMP.

Additional Benefits:

Partnerships:, Aspen and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	10,000	$15,355	$20000	$20,000	$20,000	$85,355
Report	**Units**	Report	Report	Report	Report	Report	Report
1	**Goals**	1					1

Merritt TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Merritt Goshawk Inventory**	**Activity #: MWWH8**

Description of the Activity: Carry out inventory for goshawks during the breeding season in order to identify nesting areas.

Status:	**"New" OR Years in Progress?:** Year 2	**Priority Comments:** second year of project will provide required information for decision making on management for goshawks in the district.

Location: In the vicinity of Shakan Cr.	**Management Unit**: Merritt Forest District

Potential Lead Proponent:Ardew.

Objectives: 1.Identify presence and determine the distribution of Northern Goshawks within the study area by conducting presence/not detected surveys,
2.Conduct nest searches where Northern Goshawks were detected to locate active nest sites,
3. Collect habitat information around located nest sites at four scales (nest tree, nest tree area, stand level and landscape level) to identify and document habitat attributes that were being selected for by nesting and post-fledging Northern Goshawks.

Tasks, Deliverables, Targets & Milestones: Stratified inventory for nest sites. Refined suitability model. Documentation of nest site and stand characteristics.	**Target Dates:** March 31

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 8**	**LRMP = N/A**	**RIC = 4**	**Timing = 5**	**Total = 20**

Rationale for Ranking: Not mentioned in TSR, but info will be required for future TSRs. Should resolve a major component of the information gap. Inventory is required for effective implementation of the Identified Wildlife Management Strategy. Lack of completion is delaying critical decisions.

Additional Benefits:

Partnerships: Small Business Forest Enterprise Program

Comments: The first two years of the project have allowed us to refine survey methodology and to develop a model that can be tested in the field. The 3rd years data will allow us to refine the model and narrow in on defining the most suitable habitats.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$8500	**Costs ($$)**	$10,000	$10,000	$10,000	$10,000		$40,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

A1.5 Okanagan TSA

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: AIS	**Title:AIS on Little Shuswap Lands**	**Activity #: OCH1**

Description of the Activity: AIS on lands currently under claim by the Little Shuswap and possibly the Ktunaxa/Kinbasket tribal council (possible overlapping claims in this area).

Status: **ongoing**	"New" OR Years in Progress?: 2 plus years in progress TO 721165	Priority Comments?: High, as it strengthens ties with first nations, identifies any areas of significance and thus requiring special management for Arch. concerns, as well as providing first nations employment.

Location: Little Shuswap traditional lands	**Management Unit**: Okanagan TSA

Potential Lead Proponent: Federated Co op and LP Engineered Wood Products Ltd. (FEDCO is administering contract- contact Jeff Lipsett)

Objectives:.to identify areas of Archaeological concern within the proponents' harvesting areas.

Tasks, Deliverables, Targets & Milestones: unknown (ask Federated Co op Jeff Lipsett)	**Target Dates:** Unknown

Benefits & Ranking Criteria: Not Applicable

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =N/A**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:

Rational for Ranking:

Additional Benefits:

Partnerships: Federated Co op, Little Shuswap Indian Band, and possibly Ktunaxa Kinbasket Tribal Council (if they have an overlapping claim on the areas encompassed in the study.

Comments: Please utilize Jeff Lipsett's template if available, as he knows exact details re: recommended investments.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$15 000	**Costs ($$)**	$15,000	0	0	0	0	$15,000
project	**Units**	project	project	project	project	project	project
1	**Goals**	1	0	0	0	0	0

Federated Coop + Lousiana Pacific doing a joint AIS in this area

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: AOA - Unspecified**	**Activity #: OCH6**

Description of the Activity: Insufficient information to assess or prioritize

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:** No information so must be placed into priority 3.

Location:	**Management Unit:** Okanagan TSA

Potential Lead Proponent: Riverside

Objectives:

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria: Not Applicable

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =N/A**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments: Does not appear to be confirmed project at this time.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$10,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title:** AOA Modeling	**Activity #:** OCH7

Description of the Activity: Insufficient information to assess or prioritize so must be placed into priority 3.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location:	**Management Unit:** Okanagan TSA

Potential Lead Proponent:

Objectives:

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =N/A**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments: Does not appear to be a confirmed project at this time.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$50,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title:** AIS – Adams & NIB	**Activity #:** OCH8

Description of the Activity: Insufficient information to assess or prioritize so must be placed into priority 3.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location:	**Management Unit:** Okanagan TSA

Potential Lead Proponent:

Objectives:

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =N/A**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments: Does not appear to be a solidified project at this date

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$45,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: AIS – Spall IB**	**Activity #: OCH9**

Description of the Activity: Insufficient information to assess or prioritize so must be placed into priority 3.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**
Location:		**Management Unit:** Okanagan TSA

Potential Lead Proponent:

Objectives:

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments: Does not appear to be a confirmed project at this date.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$45,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title:** AIS – Local Bands	**Activity #:** OCH10

Description of the Activity: Trails Inventory, ongoing project

Status:	**"New" OR Years in Progress?:** 3ND YR IN PROGRESS	**Priority Comments?:**

Location: Riverside, Armstrong Operating Area in the Vernon Forest District	**Management Unit:** Okanagan TSA

Potential Lead Proponent: .Riverside, Armstrong Division

Objectives: Locate areas of use.

Tasks, Deliverables, Targets & Milestones: Report	**Target Dates:** Location

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =N/A**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP: .
Other:

Rational for Ranking:

Additional Benefits:

Partnerships: Key Partnership activity

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
5000	**Costs ($$)**	5000	5000	5000	5000	5000	25,000
ha	**Units**	ha	ha	ha	ha	ha	ha
1 report	**Goals**	1 report	1 report	1 report	1 report	1 report	5 reports

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: FFHabitat Inv. – Duteau Crk.**	**Activity #: OFFH1**

Description of the Activity: Fish and fish habitat inventory of Duteau Creek.

Status:	**"New" OR Years in Progress?:** second of two	**Priority Comments:**

Location: Duteau Creek	**Management Unit:** Okanagan

Potential Lead Proponent: Riverside Lumby

Objectives: Reconnaissance level fish inventory

Tasks, Deliverables, Targets & Milestones: **Target Dates:**
GIS product and Phases 5,6 to complete the project

Benefits & Ranking Criteria: (from plan drivers)

TSR = 5	**NTRS = 7**	**LRMP =3**	**RIC = 5**	**Timing = 5**	**Total =25**

Rationale for Ranking: An ongoing project that is important for TSR and LRMP as well as the NTRS and will satisfy the needs for the specific area when completed.

Additional Benefits:
Timber Supply Review: Increased fish and fish habitat inventory will aid in Timber Supply Review by providing data for the creation of accurate and acceptable Riparian Management Classifications in regional watersheds. Additionally, increased fish and fish habitat inventory activities will identify specific landscape units where resource and forestry planning will be adapted to ensure the viability and sustainability of threatened and/or regionally significant fish population

NTRS Accurate fisheries information is required to meet the needs of higher level regional plans, as well as local resource management objectives

LRMP The preservation and conservation of fish populations and aquatic habitat are identified key issues in regional LRMP documents. In addition to broad goals which seek to sustain fish and fish habitat integrity, specific issues have been addressed each of the Regions finalized LRMP's. These issues are related to collecting information and developing comprehensive management plans for identified fish and fish habitats. Fish and Fish Habitat Inventory projects are suited to address the needs of regional LRMP's.

Partnerships: n/a

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$25,000	**Costs ($$)**	$15,273	$0	$0	$0	$0	$15,273
ha	**Units**	ha	ha	ha	ha	ha	ha
N/a	**Goals**	17,887	0	0	0	0	17887

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: FFH Inventory - Kettle**	**Activity #: OFFH2**

Description of the Activity: Fish and fish habitat inventory in the Kettle.

Status:	**"New" OR Years in Progress?:** second of two	**Priority Comments:**

Location: Kettle River

Management Unit: Okanagan

Potential Lead Proponent: Riverside Lumby

Objectives: Reconnaissance level fish inventory

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

GIS product and Phases 5,6 to complete the project

Benefits & Ranking Criteria: (from plan drivers)

TSR = 5	**NTRS = 7**	**LRMP =3**	**RIC = 5**	**Timing = 5**	**Total =25**

Rationale for Ranking: An ongoing project that is important for TSR and LRMP as well as the NTRS and will satisfy the needs for the specific area when completed.

Additional Benefits:

Timber Supply Review: Increased fish and fish habitat inventory will aid in Timber Supply Review by providing data for the creation of accurate and acceptable Riparian Management Classifications in regional watersheds. Additionally, increased fish and fish habitat inventory activities will identify specific landscape units where resource and forestry planning will be adapted to ensure the viability and sustainability of threatened and/or regionally significant fish population

NTRS Accurate fisheries information is required to meet the needs of higher level regional plans, as well as local resource management objectives

LRMP The preservation and conservation of fish populations and aquatic habitat are identified key issues in regional LRMP documents. In addition to broad goals which seek to sustain fish and fish habitat integrity, specific issues have been addressed each of the Regions finalized LRMP's. These issues are related to collecting information and developing comprehensive management plans for identified fish and fish habitats. Fish and Fish Habitat Inventory projects are suited to address the needs of regional LRMP's.

Partnerships: n/a

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$30,000	**Costs ($$)**	$19,067	$0	$0	$0	$0	$19,067
ha	**Units**	ha	ha	ha	ha	ha	ha
N/a	**Goals**	15,000	0	0	0	0	15,000

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: FFH Inv. – Silver Hills**	**Activity #: OFFH3**

Description of the Activity: Fish and fish habitat inventory in the Silver Hills.

Status:	**"New" OR Years in Progress?:** second of two	**Priority Comments:**

Location: Silver Hills area

Management Unit: Okanagan

Potential Lead Proponent: Riverside Lumby

Objectives: Reconnaissance level fish inventory

Tasks, Deliverables, Targets & Milestones: **Target Dates:**
GIS product and Phases 5,6 to complete the project

Benefits & Ranking Criteria: (from plan drivers)

TSR = 5	**NTRS = 7**	**LRMP =3**	**RIC = 5**	**Timing =5**	**Total =25**

Rationale for Ranking: An ongoing project that is important for TSR and LRMP as well as the NTRS and will satisfy the needs for the specific area when completed.

Additional Benefits:

Timber Supply Review: Increased fish and fish habitat inventory will aid in Timber Supply Review by providing data for the creation of accurate and acceptable Riparian Management Classifications in regional watersheds. Additionally, increased fish and fish habitat inventory activities will identify specific landscape units where resource and forestry planning will be adapted to ensure the viability and sustainability of threatened and/or regionally significant fish population

NTRS Accurate fisheries information is required to meet the needs of higher level regional plans, as well as local resource management objectives

LRMP The preservation and conservation of fish populations and aquatic habitat are identified key issues in regional LRMP documents. In addition to broad goals which seek to sustain fish and fish habitat integrity, specific issues have been addressed each of the Regions finalized LRMP's. These issues are related to collecting information and developing comprehensive management plans for identified fish and fish habitats. Fish and Fish Habitat Inventory projects are suited to address the needs of regional LRMP's.

Partnerships: n/a

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$40,000	**Costs ($$)**	$10,127	$0	$0	$0	$0	$10,127
ha	**Units**	ha	ha	ha	ha	ha	ha
N/A	**Goals**	7000	0	0	0	0	7,000

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue:FFHI	**Title:** Fish and Fish Habitat Inventory	**Activity #: OFFH 7**

Description of the Activity: Delineation of stream reaches using RIC standards, sampling plan development, collecting field data and preparing final fish distribution maps (interpretive / project maps) and submission of FDIS database. Mapping assists in operational planning and watershed restoration activities.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments** Required to complete Hedley/McNulty drainage..

Location: Hedley/McNulty Creek	**Management Unit:** Okanagan/Merritt TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: Complete the FFHI coverage for this drainage.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** March 31, 2003.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =6**	**RIC = 5**	**Timing =1**	**Total = 24**

Benefits & Ranking Criteria:

Rational for Ranking: Drainage is partially complete and the information available for use. Past investment not at risk due to process of completing entire sub-basins. Information, subsequent modelling and incorporation into LAA's will obviate the need for stream identification for FDP approval.

Additional Benefits:

Timber Supply Review: Increased fish and fish habitat inventory will aid in Timber Supply Review by providing data for the creation of accurate and acceptable Riparian Management Classifications in regional watersheds. Additionally, increased fish and fish habitat inventory activities will identify specific landscape units where resource and forestry planning will be adapted to ensure the viability and sustainability of threatened and/or regionally significant fish population

NTRS Accurate fisheries information is required to meet the needs of higher level regional plans, as well as local resource management objectives

LRMP The preservation and conservation of fish populations and aquatic habitat are identified key issues in regional LRMP documents. In addition to broad goals which seek to sustain fish and fish habitat integrity, specific issues have been addressed each of the Regions finalized LRMP's. These issues are related to collecting information and developing comprehensive management plans for identified fish and fish habitats. Fish and Fish Habitat Inventory projects are suited to address the needs of regional LRMP's.

Partnerships: None

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs**	$40,000	$35,000	$35,000	$35,000	$35,000	$180,000
0 ha	**Units**	400 km	300 km a	300 km a	300 km a	300 km a	1600 km
	Goals						

Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: FHAT 20 Modelling**	**Activity #: OFFH 8**

Description of the Activity: FHAT20 Modelling on existing fish inventories

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:** Need for habitat information in managing fish

Location: Weyerhaeuser – Lumby operating area	**Management Unit:** Okanagan TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives:.Ground Truth Modelled data

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** 2004

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 7**	**LRMP = 6**	**RIC = 4**	**Timing = 2**	**Total =21*/**

Benefits & Ranking Criteria:

Timber Supply Review: Aids TSR process by providing data on acceptable Riparian Management Zone classifications.

Non-Timber Resource Strategies: Statistically valid predictions of fish and fish habitat distribution can be used by fisheries managers to estimate habitat capability. Improved information pertaining to a gap or need on part of the TSA. Follow-up work still needed.

LRMP: The preservation and conservation of fish populations and aquatic habitat are identified key issues in LRMP documents.

Other:

Rational for Ranking:

TSR –local consideration may be made to volume adjustments in maintaining critical fish habitat values

NTRS – High interest area regarding fish distribution and species

LRMP – Information may be used in refining local area agreements

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	$20,000	$20,000				$40,000
1	**Units**	1	1	1	1	1	5
report	**Goals**	report	report	report	report	report	reports

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Anstey watershed Fish**	**Activity #: OFFH10**

Description of the Activity: Phase four to six inventory of the Anstey watershed's streams for fish presence/absence

Status:	**"New" OR Years in Progress?:** 2nd year in progressTO 721155	**Priority Comments?:** High priority. Awaiting final deliverables of the inventory.

Location: Anstey River Watershed	**Management Unit:** OK TSA

Potential Lead Proponent: LP Engineered Wood Products Ltd.

Objectives:.To identify fish presence / absence and species within tributaries of the Anstey River watershed. Complements a current Watershed Restoration Plan for the area slated for this year.

Tasks, Deliverables, Targets & Milestones: Deliverables of final phase 6 report is for July 30.	**Target Dates:** July 30, 2001

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =3**	**RIC = 5**	**Timing = 5**	**Total =25**

Benefits & Ranking Criteria:

Timber Supply Review: Riparian Reserves affect Tim. Supply. Area not inventoried yet re: fisheries. Provides more accurate info. Re: Riparian Reserve Area for future Timber Supply Analyses.

Non-Timber Resource Strategies: Salmon habitat. Significant fish value watershed. Traditional Use by Natives of this fishery.

LRMP: Native historical use of salmon fishery.

Other: Anstey Watershed currently undergoing Watershed Restoration Plan. This study will greatly assist plan.

Additonal Benefits:

Timber Supply Review: Increased fish and fish habitat inventory will aid in Timber Supply Review by providing data for the creation of accurate and acceptable Riparian Management Classifications in regional watersheds. Additionally, increased fish and fish habitat inventory activities will identify specific landscape units where resource and forestry planning will be adapted to ensure the viability and sustainability of threatened and/or regionally significant fish population

NTRS Accurate fisheries information is required to meet the needs of higher level regional plans, as well as local resource management objectives

LRMP The preservation and conservation of fish populations and aquatic habitat are identified key issues in regional LRMP documents. In addition to broad goals which seek to sustain fish and fish habitat integrity, specific issues have been addressed each of the Regions finalized LRMP's. These issues are related to collecting information and developing comprehensive management plans for identified fish and fish habitats. Fish and Fish Habitat Inventory projects are suited to address the needs of regional LRMP's.

Partnerships: Spallumachine Indian Band. Work has been completed by workers in the Spallumachine Indian Band, with Silvatech Consultants overseeing their work

Comments: phase I to III of the inventory has been done. It is ethically prudent to finish this study completely. Expect report for final phase IV to VI this year. Future funding not required.

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$20 000	**Costs**	$20,000	$0,000	$0,000	$0,000	$0,000	$20,000
Project	**Units**	project	ha	ha	ha	ha	project
1	**Goals**	1	0	0	0	0	1

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: Fish Inv.	**Title: Seymour Watershed 1:20 000 fisheries inventory and fish habitat assessment**	**Activity #: OFFH11**

Description of the Activity: 1:20 000 phase I through VI inventory of the fisheries and fish habitats of the Seymour Watershed

Status:	**"New" OR Years in Progress?:** Ongoing TO721171	**Priority Comments?:** HIGH. The phase I to III is in the process of being completed. The field portion is proposed to be completed next year (ie: 2002/2003)

Location: Seymour River Watershed

Management Unit: Okanagan TSA

Potential Lead Proponent: LP Engineered Wood Products Ltd.

Objectives:.To identify fish habitat and fish presence/ absence to assist in better forest management and to conserve the valuable fisheries values within this watershed. Also critical in completing watershed restoration planning for this watershed.

Tasks, Deliverables, Targets & Milestones: Phase I to III report is in the works for final QA. The phase IV to VI (field work) is proposed to be completed by August 1, 2002.

Target Dates:
August 1, 2002

Benefits & Ranking Criteria:

TSR = 5	**NTRS =7**	**LRMP =3**	**RIC =5**	**Timing = 5**	**Total =25**

Benefits & Ranking Criteria:
Timber Supply Review: Riparian Areas affect Tim. Sup. Knowing fishbearing versus non fish bearing streams will assist in properly identifying the required Riparian Reserves.
Non-Timber Resource Strategies: High Value Salmon watershed, and traditional use of Salmon fishery by natives.
LRMP: Fisheries
Other: Critical information to guide the Watershed Restoration Plan for the Seymour Watershed.

Rational for Ranking: High fisheries value (salmon and other Salmonid species; within traditional lands of first nations; Watershed Restoration Plan for the drainage is being completed this year, and this is an important assessment to add into the Restoration Plan.

Additional Benefits: strengthen first nations ties by conserving a critical salmon area.

Partnerships: LP Engineered Wood Products only, but benefits the Salmon fishery and First Nations interests.

Comments: Currently there is 85 000 dollars available for this project's completion this year, however, upper management in the Company has slated this money for the Okanagan IFPA. Thus we are proposing funding for next year in the same amount to complete phases IV to VI.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$85 000	**Costs ($$)**	$85 000	$0,000	$0,000	$0,000	$0,000	$85 000
Project	**Units**	Project	ha	ha	ha	ha	Project
1	**Goals**	1	0	0	0	0	1

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FH	**Title: Managed Stands Health**	**Activity #: OFH1**

Description of the Activity: Managed stands in selected community watersheds

Status:	**"New" OR Years in Progress?:** *2nd?*	**Priority Comments?:** Insufficient info to assess so must be placed into priority 3

Location:	**Management Unit:** Okanagan TSA

Potential Lead Proponent: Tolko

Objectives:

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 0	**NTRS = 0**	**LRMP =0**	**RIC = 0**	**Timing =3**	**Total = 3**

Benefits & Ranking Criteria: Insufficient information to provide ranking criteria.
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: Insufficient information for ranking

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$12,000	**Costs ($$)**	$10,000	$10,000	$10,000	$10,000	$0,000	$40,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FH	**Title: Forest Health Inventory**	**Activity #: OFH2**

Description of the Activity: Hadrian Merler at Region is to be completing an inventory of forest health issues regarding root rots.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:** For better inventory of potential health issues to help prevent epidemics of pest/pathogens in merchantable forests.

Location: Unknown exact location, but somewhere in the Thomp. Okanagan area of LP Engineered Wood Products Ltd.'s operating area.	**Management Unit:** Okanagan TSA

Potential Lead Proponent: LP Engineered Wood Products Ltd.

Objectives:.Better inventory of forest health issues within the proponent's operating area within the Thompson Okanagan area.

Tasks, Deliverables, Targets & Milestones: To be completed in 2002	**Target Dates:** Unknown

Benefits & Ranking Criteria:

TSR = 8	**NTRS = 1**	**LRMP = 6**	**RIC = 3**	**Timing = 5**	**Total = 23**

Benefits & Ranking Criteria:
Timber Supply Review: Pest and Pathogen losses are thought to have been underestimated in the TSR. Root rot assessments and better info specifically requested by CF.
Non-Timber Resource Strategies: not really applicable
LRMP: Not specifically mentioned but important to the process.
Other: Project will identify potential pest /pathogen problems and possibly mitigate losses to these factors, thus improving the harvestable land base.

Additional Benefits:

Partnerships: Ministry of Sustainable Resource Management

Comments: Unknown exact details of study. Contact Hadrian Merler as he will be in charge of project

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$8 000	**Costs ($$)**	$8,000	$0,000	$0,000	$0,000	$0,000	$8 000
project	**Units**	project	ha	ha	ha	ha	project
1	**Goals**	1	0	0	0	0	1

Template 3: Activities to Implement SSFM Strategies for Plan 2002/2003

SSFM Issue: TSR	**Title: IT – GIS**	**Activity #: 1.17 OIT-1**

Description of the Activity: The use of Information Technology GIS tools in TSA wide standardized digital format is required for spatial assessment of strategic landscape unit plans. A study of existing standards being employed in various spatial analysis projects is required to establish a standardized information layers throughout all the TSA analysis.

Status:	"New" OR Years in Progress?: New 2001 / 2002	Priority Comments?: High for the Okanagan TSA Licensees & SBFEP

Location: Okanagan TSA **Management Unit**: O

Potential Lead Proponent: All Licensees, IFPA , Weyerhaeuser

Objectives: The intent of Information Technology in the GIS environment is to provide standardized TSA wide GIS data for use in TSA analysis for Timber Supply Review purposes.

GIS Tasks, Deliverables, Targets & Milestones:
Standards for GIS themes and layers for TCP planning & LU Planning

Target Dates:
March 31, 2003

Benefits & Ranking Criteria:
TSR 10/10 LRMP 10/10 NTR 8/10 RIC 0/5 Timing 3/5 = TOTAL 31

Benefits & ranking Criteria:

Timber Supply Review: Essential collation of multi layers of data requires a set of standards to provide seamless data sets for timber supply analysis.

Non-timber resource Strategies: Essential collation of multitude of projects within any one of data layer requires a set of standards to provide seamless data sets for non timber resource analysis.

LRMP: Analysis of LRMP issue driven Deer winter Ranges, Caribou and Marten, sensitive terrain, etc.

Other: The standardized merging of existing RIC standard inventories are required for assessment of analysis of TSA wide issue based inventories.

Rational for Ranking: As essential need for data management for all inventories and plans.

Partnerships: Ministry of Forests, Okanagan TSA MOF Small Business Forest Enterprise Program, Ministry of Water, Land & Air, Bell Pole Company Ltd. , Gorman Bros. Lumber Ltd., Federated Co-operatives Limited, LP Engineered Wood Products Ltd. , Selkirk Timber Company, Tolko Industries Ltd., Weyerhaeuser Company Ltd. , Okanagan Innovative Forestry Society

Comments: IT-GIS provides the basic tools to strategic analysis for Timber Supply Review.

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	Projected **2004/05**	Projected **2005/06**	**Projected 2006/07**	**5 Year Totals**
$35,000	**Costs ($$)**	$60,000	$60,000	$60,000	$60,000	$60,000	$300,000
0	**Units**	md	md	Md	Md	Md	Md
70	**Goals**	120	120	120	120	120	550

Template 3: Activities to Implement SSFM Strategies for Plan 2002/2003

SSFM Issue: #1.1	**Title: IT – Photos**	**Activity #:** 1.13 **OIT-2**

Description of the Activity: Photo acquisition of 1:30,000 soft copy is required to undertake a Predictive Ecosystem Mapping project proposed to provide the basis for a Site Index Assignment in the Okanagan TSA. A PEM supplemented with a future Vegetation Resource Inventory will also provide the tools for eventual modeling for both Timber Supply Review and Non Timber Resource Values in the TSA.

Status:	"New" OR Years in Progress?: Year 2 of 2	Priority Comments?: #1 for the Okanagan TSA Licensees & SBFEP

Location: Okanagan TSA **Management Unit**: Okanagan TSA

Potential Lead Proponent: All Licensees, Federated Coop $200,000

Objectives: Photos are a prerequisite to PEM, the intent of a PEM for the Okanagan TSA is to provide an ecosystem based Site Index Assignment. PEM will also support modelling for Non Timber Resources once supplemented with a Vegetation Resource Inventory with the intent of meeting the strategies of the OSLRMP.

PEM Project Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Air Photos 1:30000 DIAPs & ORTHOs Vernon or Penticton	April 30, 2002

Benefits & Ranking Criteria:
TSR 10/10 LRMP 10/10 NTR 9/10 RIC 5/5 Timing 5/5 = **TOTAL 39**

Benefits & Ranking Criteria:
Timber Supply review: Softcopy photos are an essential tool to pursue VRI and PEM.
Non-Timber resource Strategies: Photos are a basic tool for evaluation of site specific non timber resources.
LRMP: Photos provide an essential tool for the monitoring of landbase activities subject to the LRMP.
Other: delivery of orthophotos and stereo DIAPs for either Vernon or Penticton District is planned pending on the successful delivery of photos in 2001/2002.

Rational for Ranking: An essential tool for all land management activities.

Partnerships: Ministry of Forests, Okanagan TSA MOF Small Business Forest Enterprise Program, Ministry of Water, Land & Air, Bell Pole Company Ltd., Gorman Bros. Lumber Ltd., Federated Co-operatives Limited, LP Engineered Wood Products Ltd., Selkirk Timber Company, Tolko Industries Ltd., Weyerhaeuser Canada Ltd., Okanagan Innovative Forestry Society IFPA.

Comments: Photos provide the basic tool to provide strategic PEM, VRI Phase 1 for Timber Supply Review.

Previous Investment		**Recommended Investments – Photos**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	Projected 2004/05	Projected 2005/06	**Projected 2006/07**	**5 Year Totals**
$340,000 DSA/DVE	**Costs ($$)**	$200,000	$0,000	$0,000	$0,000	$0,000	$200,000
Ha	**Units**	Ha	Ha	ha	ha	Ha	Ha
1,600,000	**Goals**	1,000,000					1,000,000

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Overmature Spatial Planning**	**Activity #: ORP1**

Description of the Activity:

Status:	**"New" OR Years in Progress?:** 1 (721987)	**Priority Comments:** Ongoing Project

Location:

Management Unit: Okanagan TSA

Potential Lead Proponent: Tolko

Objectives: To assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria: Insufficient information to assess. Only known that it was previously funded and follow up work is needed.

TSR = 0	**NTRS = 0**	**LRMP =0**	**RIC = 0**	**Timing = 4**	**Total = 4**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: Further information required to complete ranking.

Additional Benefits:

Partnerships:

Comments: .

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$36,000	**Costs ($$)**	$45,000	$40,000	$50,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Spatial Planning – Trout Crk**	**Activity #: ORP2**

Description of the Activity: Spatial Planning in Trout Crk Area

Status:	**"New" OR Years in Progress?:** 2^{ND} of 3	**Priority Comments**:

Location: Trout Creek Community Watershed	**Management Unit**: Okanagan TSA

Potential Lead Proponent: Gormans (Joint project with Riverside Forest Products Limited)

Objectives:

The Adaptive Management Plan for Trout Creek will provide prescribing foresters, statutory decision makers and stakeholder's guidance with respect to acceptable levels of resource utilization consistent with recommendations identified in the TSR, NTRS and LRMP. The Adaptive Management Plan will stress a sustainable, integrated approach, which will facilitate knowledge-based decision making and lead to improved forest management within the Trout Creek Community Watershed.

Background: The Adaptive Management Plan for Trout Creek, Step One began in 2001/2002, and is planned to move into Steps Two and Three during 02/03 , 03/04 concluding in 2004/05.

Components: The components of the Adaptive Management Plan are listed below with the Total Chance Plan for the Watershed being completed during the 2001/2002 FRBC Fiscal Year.

1. Total Chance Plan. Each block or polygon is assigned both a silviculture system and harvesting method. The sequence and timing of harvest are not included or implied in the TCP. Rather, they are generated in the modeling process, which is completed as a separate activity after the digitizing of all polygons.

2. Forest Estate Modeling. A Forest estate model such as COMPLAN or ATLAS is used to analyze scenarios, which represent different resource management options over time in order to be able to select the most appropriate option. The strongest or best resource management options obtained through modeling must be tested against or viewed in combination with other management objectives for the watershed.

3. Collection of Snow Line Hydrologic Data. The elevation of the snow line during the period of peak flow will be determined by flying the watershed once per week during the May/June period. A photo and video record of the snow line will be assembled during these flights as well as locating the snowline from each flight on the forest cover map.

4. Channel Monitoring. Permanent Long-term channel monitoring sites are established at selected locations in the watershed to provide data on channel stability and channel changes. These sites will be re-surveyed on an annual basis. The intent of the monitoring program is to provide an early warning of channel changes that may be related to peak flow increases associated with forest development.

5. Biodiversity Study. Biodiversity exists in managed forest ecosystems, particularly "mosaics" of habitats composed of a variety of successional stages, tree species, stand densities, and age classes across a landscape. Dr. Tom Sullivan has been studying this premise on TFL 49 by determining how mosaics of managed and unmanaged forest habitats contribute to biodiversity, and hence sustainability. This approach will be used for this watershed by evaluating the "mosaic" of habitats covering the particular landscape unit. Results from the TFL 49 study will be extrapolated in general terms based on GIS data and some fieldwork.

SSFM Issue: RP	Title: Spatial Planning – Trout Crk	Activity #: ORP2

6. Riparian Management Plan The plan will be consistent with the objectives and the process described in the LRMP.
7. Communication with stakeholder groups is a critical component of this Adaptive Management Plan. Informal meetings and field trips will be held on occasion as well as an annual information session, at which time a report will be presented. On going communications will take place with Riverside Forest Products Limited to ensure that the information, which they develop, will be harmonious with the Adaptive Management Plan for Trout Creek.

Tasks, Deliverables, Targets & Milestones: Provide the following by 31 March 2005: Up to 16 copies of a summary report which summarises the Adaptive Management Plan for the Trout Creek Community Watershed	**Target Dates:** March 31, 2005

Benefits & Ranking Criteria:

TSR = 5	NTRS = 7	LRMP =6	RIC = 2	Timing = 4	Total =24

Benefits & Ranking Criteria:

Timber Supply Review: Spatial analysis is a known concern indirectly referenced by the CF. Resource plans are an effective tool to demonstrate the impacts of constraints and base case scenarios presented to the Chief Forester and resolve a major component of a gap or concern. Data derived from these studies have been incorporated in past TSR's and additional information will be valuable for future considerations. Data from local projects can be applied to different watersheds over larger areas of the TSA.

Non-Timber Resource Strategies: Improves needed information on part of the TSA. Follow-up work still needed. Predominant hydrological benefits demonstrated applicable to NTSR strategies and regional water issues. Recognizes strategic value in establishing known hydrologic condition of watershed over long term planning horizon.

There is definite need to amalgamate the host of water related issues so that establishment of waterstations is meeting a wide scope of information needs. RP's present opportunity to integrate data collection.

LRMP: Improves needed information on part of the TSA. Follow-up work still needed. Res Plans have demonstrated impacts of contraints for consideration to the OSLRMP table. Ongoing work can be imported to other watershed areas in the TSA.

Other: . Considered a high priority by proponent and partner groups

Rational for Ranking:.

Additional Benefits: The issue of Timber Availability is addressed with in the watershed. Spatial analysis is a key factor. Will incorporate strategies to meet non-timber resource needs in complex, area based constraints to timber harvesting.

The interaction of resource planning to consider non-timber resources is a vital and basic component of the Adaptive Mgt Planning process.

The RP for Trout Creek will mitigate the impacts of the OSLRMP with respect to acceptable levels of resource utilization in the watershed. The LRMP encourages the TRP concept in planning initiatives in watersheds.

Partnerships: Municipality of Summerland

Comments: The Adaptive Management Plan for Trout Creek is an ongoing project that has the support of the MOF, MSRM and MWLAP.

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$50,000	**Costs ($$)**	$50,000	$50,000	$50,000	$0,000	$0,000	$150,000
Ha	**Units**	Ha	Ha	Ha	ha	Ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Adaptive Mgt Plan – Mission, Trout & Peachland Community WS**	**Activity #: ORP3**
Description of the Activity: ONGOING since 1998/99		
Status:	"New" OR Years in Progress?: 4th YEAR in Progress	**Priority Comments**: Considered a high priority by proponents and partners
Location: MISSION, TROUT AND PEACHLAND COMMUNITY WATERSHEDS		**Management Unit**: Okanagan TSA
Potential Lead Proponent: Riverside		

Objectives: To assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR. **Objectives:** The Adaptive Management Plans for Mission, Trout and Peachland Creeks will provide prescribing foresters, statutory decision makers and stakeholder's guidance with respect to acceptable levels of resource utilization consistent with recommendations identified in the TSR, NTRS and LRMP. These Adaptive Management Plans will stress a sustainable, integrated approach, which will facilitate knowledge-based decision making and lead to improved forest management within the watersheds.

Background: The Adaptive Management Plan for Mission Creek, Step One began in 1999/2000, and has since moved into Steps Two and Three. Step One of Adaptive Management Plans for Trout Creek and for Peachland Creek got underway in 2001/02.

Components: The components vary between the three watersheds, some have been completed, and not all of them are present in each watershed.

Total Chance Plan. Each block or polygon is assigned both a silviculture system and harvesting method. The sequence and timing of harvest are not included or implied in the TCP. Rather, they are generated in the modeling process, which is completed as a separate activity after the digitizing of all polygons.

Forest Estate Modeling. A Forest estate model such as COMPLAN or ATLAS is used to analyze scenarios, which represent different resource management options over time in order to be able to select the most appropriate option. The strongest or best resource management options obtained through modeling must be tested against or viewed in combination with other management objectives for the watershed.

Collection of Snow Line Hydrologic Data. The elevation of the snow line during the period of peak flow will be determined by flying the watershed once per week during the May/June period. A photo and video record of the snow line will be assembled during these flights as well as locating the snowline from each flight on the forest cover map.

Biodiversity Study Biodiversity exists in managed forest ecosystems; particularly "mosaics" of habitats composed of a variety of successional stages, tree species, stand densities, and age classes across a landscape. Dr. Tom Sullivan has been studying this premise on TFL 49 by determining how mosaics of managed and unmanaged forest habitats contribute to biodiversity, and hence sustainability. This approach will be used for these watersheds by evaluating the "mosaic" of habitats covering the particular landscape unit. Results from the TFL 49 study will be extrapolated in general terms based on GIS data and some fieldwork.

Riparian Management Plan The plan will be consistent with the objectives and the process described in the LRMP.

Channel Monitoring. Permanent Long-term channel monitoring sites are established at selected locations in the watershed to provide data on channel stability and channel changes. These sites will be re-surveyed on an annual basis. The intent of the monitoring program is to provide an early warning of channel changes that may be related to peak flow increases associated with forest development.

Tasks, Deliverables, Targets & Milestones: Provide the following by 31 March annually: 16 copies of a summary report which summarizes the Adaptive Management Plans for Mission, Trout & Peachland Creeks.	**Target Dates:** March 31, 2007

Benefits & Ranking Criteria:

TSR = 5	NTRS =7	LRMP =6	RIC = 2	Timing = 5	Total =25

Benefits & Ranking Criteria:

Timber Supply Review: Spatial analysis is a known concern indirectly referenced by the CF. Resource plans are an effective tool to demonstrate the impacts of constraints and base case scenarios presented to the Chief Forester and resolve a major component of a gap or concern. Data derived from these studies have been incorporated in past TSR's and additional information will be valuable for future considerations. Data from local projects can be applied to different watersheds over larger areas of the TSA.

Non-Timber Resource Strategies: Improves needed information on part of the TSA. Follow-up work still needed. Predominant hydrological benefits demonstrated applicable to NTSR strategies and regional water issues. Recognizes strategic value in establishing known hydrologic condition of watershed over long term planning horizon.

There is definite need to amalgamate the host of water related issues so that establishment of waterstations is meeting a wide scope of information needs. RP's present opportunity to integrate data collection.

LRMP: Improves needed information on part of the TSA. Follow-up work still needed. RP's have demonstrated the impacts of contraints for consideration to the OSLRMP table. Ongoing work can be imported to other watershed areas in the TSA.

Other: . Considered a high priority by proponent and partner groups

Rational for Ranking: Mission Creek is one of the largest watersheds in the province with large rural and urban population dependant on water supplies. Considered highest RP priority in the TSA.

Additional Benefits: The issue of Timber Availability is addressed with in the watershed. Spatial analysis is a key factor. Will incorporate strategies to meet non-timber resource needs in complex, area based constraints to timber harvesting.

The interaction of resource planning to consider non-timber resources is a vital and basic component of the Adaptive Mgt Planning process.

The RP for these creeks will mitigate the impacts of the OSLRMP with respect to acceptable levels of resource utilization in the watershed. The LRMP encourages the TRP concept in planning initiatives in watersheds.

Partnerships: City of Kelowna, Black Mountain Irrigation District, Municipality of Summerland, Municipality of Peachland All aspects of work coordinated with other licencee operating in the WS.

Comments: The work in this ongoing project is shifting from Mission to Trout and Peachland. It has the support of MoF & MWLAP.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$125,000	**Costs ($$)**	$125,000	$100,000	$100,000	$100,000	$100,000	$500,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Adaptive Mgt Plan - Monashee**	**Activity #: ORP5**

Description of the Activity: ONGOING

Status:	**"New" OR Years in Progress?:** second of two years	**Priority Comments?:**

Location: Monashee Railroad Area	**Management Unit:** Okan TSA

Potential Lead Proponent: Riverside, Lumby Division for Bell Pole Company

Objectives: To assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR. The Adaptive Management Plan will provide prescribing foresters, statutory decision makers and stakeholder's guidance with respect to acceptable levels of resource utilization consistent with recommendations identified in the TSR, NTRS and LRMP. This plan will stress a sustainable, integrated approach, which will facilitate knowledge-based decision making and lead to improved forest management within the watersheds.

Components:.

1. Total Chance Plan. Each block or polygon is assigned both a silviculture system and harvesting method. The sequence and timing of harvest are not included or implied in the TCP. Rather, they are generated in the modeling process, which is completed as a separate activity after the digitizing of all polygons.
2. Forest Estate Modeling. A Forest estate model such as COMPLAN or ATLAS is used to analyze scenarios, which represent different resource management options over time in order to be able to select the most appropriate option. The strongest or best resource management options obtained through modeling must be tested against or viewed in combination with other management objectives for the watershed. The horizon of planning extends to 200 years.
3. Communication with stakeholder groups is a critical component of an Adaptive Management Plan. Informal meetings and field trips will be held on occaision.

Tasks, Deliverables, Targets & Milestones: Modeling to be complete by March, 2003	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 5**	**LRMP =5**	**RIC =2**	**Timing = 5**	**Total =22**

Benefits & Ranking Criteria:

Timber Supply Review: Spatial analysis is a known concern indirectly referenced by the CF. Resource plans are an effective tool to demonstrate the impacts of constraints and base case scenarios presented to the Chief Forester and resolve a major component of a gap or concern. Data derived from these studies have been incorporated in past TSR's and additional information will be valuable for future considerations. Data from local projects can be applied to different watersheds over larger areas of the TSA.

Non-Timber Resource Strategies: Improves needed information on part of the TSA. Follow-up work still needed.

LRMP: May mitigate LRMP impacts. Spatial linkages a known concern for the future. Improves needed information on part of the TSA & follow-up work still needed. RP's have demonstrated the impacts of contraints for consideration to the OSLRMP table. Ongoing work can be imported to other watershed areas in the TSA.

SSFM Issue: RP	**Title: Adaptive Mgt Plan - Monashee**	**Activity #: ORP5**

Additional Benefits: The issue of Timber Availability is addressed with in the watershed. Spatial analysis is a key factor. Will incorporate strategies to meet non-timber resource needs as complex, area based constraints to timber harvesting.

The interaction of resource planning to consider non-timber resources is a vital and basic component of the Adaptive Mgt Planning process.

The RP for Monashee Creek will mitigate the impacts of the OSLRMP with respect to acceptable levels of resource utilization in the watershed. The LRMP encourages the TRP concept in planning initiatives in watersheds.

Rational for Ranking: Considered a high priority by proponents and partners.

Comments: 2002/03 expected to be final year of project

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$15,000	**Costs ($$)**	$15,000	$0	$0	$0	$0	$15,000
ha	**Units**	ha	ha	ha	ha	ha	ha
N/a	**Goals**	1 report	1 report	1 report	1 report	1 report	5 reports

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Sicamous Spatial Planning**	**Activity #: ORP6**

Description of the Activity: ONGOING

Status:	**"New" OR Years in Progress?:** third of three	**Priority Comments?:**

Location: Sicamous Wiseman area	**Management Unit:** Okanagan TSA

Potential Lead Proponent: Riverside Forest Products, Armstrong Division,

Objectives: To assess the needs, develop schedules and implement resource planning consistent with recommendations identified in the LRMPs, NTRS and TSR. The Adaptive Management Plan will provide prescribing foresters, statutory decision makers and stakeholder's guidance with respect to acceptable levels of resource utilization consistent with recommendations identified in the TSR, NTRS and LRMP. This plan will stress a sustainable, integrated approach, which will facilitate knowledge-based decision making and lead to improved forest management within the watersheds.

Components:.

1. Total Chance Plan. Each block or polygon is assigned both a silviculture system and harvesting method. The sequence and timing of harvest are not included or implied in the TCP. Rather, they are generated in the modeling process, which is completed as a separate activity after the digitizing of all polygons.
2. Forest Estate Modeling. A Forest estate model such as COMPLAN or ATLAS is used to analyze scenarios, which represent different resource management options over time in order to be able to select the most appropriate option. The strongest or best resource management options obtained through modeling must be tested against or viewed in combination with other management objectives for the watershed. The horizon of planning extends to 200 years
3. Communication with stakeholder groups is a critical component of an Adaptive Management Plan. Informal meetings and field trips will be held on occaision.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** March 31, 2003

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 5**	**LRMP =5**	**RIC =2**	**Timing = 5**	**Total =22**

Benefits & Ranking Criteria:

Timber Supply Review: Spatial analysis is a known concern indirectly referenced by the CF. Resource plans are an effective tool to demonstrate the impacts of constraints and base case scenarios presented to the Chief Forester and resolve a major component of a gap or concern. Data derived from these studies have been incorporated in past TSR's and additional information will be valuable for future considerations. Data from local projects can be applied to different watersheds over larger areas of the TSA.

Non-Timber Resource Strategies: Improves needed information on part of the TSA. Follow-up work still needed.

LRMP: May mitigate LRMP impacts. Spatial linkages a known concern for the future. Improves needed information on part of the TSA & follow-up work still needed. RP's have demonstrated the impacts of contraints for consideration to the OSLRMP table. Ongoing work can be imported to other watershed areas in the TSA.

Additional Benefits: The issue of Timber Availability is addressed with in the watershed. Spatial analysis is a key factor. Will incorporate strategies to meet non-timber resource needs as complex, area based constraints to timber harvesting.
The interaction of resource planning to consider non-timber resources is a vital and basic component of the Adaptive Mgt Planning process.
The RP for Sicamous / Wiseman Creek will mitigate the impacts of the OSLRMP with respect to acceptable levels of resource utilization in the watershed. The LRMP encourages the TRP concept in planning initiatives in watersheds.

Rational for Ranking: Considered a high priority by proponents and partners.

Comments: Final year of project.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
15,000	**Costs**	$5,000	$0	$0	$0	$0	$5,000
ha	**Units**	ha	ha	ha	ha	ha	ha
1 report	**Goals**	1 report	1 report	1 report	1 report	1 report	5 reports

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: #1.1	**Title: BEC**	**Activity:** 1.12 **OTEM1**

Description of the Activity: Continuation of Regionally approved Biological Ecological Classification Project is required in the Okanagan TSA to complete the ongoing BEC refinement throughout the Region. BEC is a critical input element to a Predictive Ecosystem Mapping project for the Okanagan Management Unit. Through the innovative & cooperative actions of the Okanagan Innovative Forestry Practices Society a Predictive Ecosystem Model is proposed to provide the basis for a Site Index Assignment in the Okanagan TSA.

Status:	"New" OR Years in Progress?: Year 5 of 5	**Priority Comments?:** High priority for the Kamloops Region

Location: Okanagan TSA **Management Unit:** Okanagan TSA

Potential Lead Proponent: All Licensees, IFPA, Weyerhaeuser Company Ltd. 142,000

Objectives: The intent of a BEC for the Okanagan TSA is to provide a strategic level refinement of BioGeoClimatic classification throughout the TSA. This refinement will provide critical input elements for ecosystem based mapping which will be used in a number of applications including PEM and TSR. The BEC will also support mapping for Non Timber Resources once supplemented with a Vegetation Resource Inventory in favour of meeting the strategies of the OSLRMP.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
BEC refinement Okanagan TSA Wet belt, sample planning	May 31, 2002
BEC refinement Okanagan TSA Wet belt, field verification	Oct 31, 2002
BEC refinement Okanagan TSA Wet belt, databases and digital maps	March 31, 2003
Final BEC Report for Dry belt/Wet belt Okanagan TSA & QA	**March 31, 2003**

Benefits & Ranking Criteria:
TSR: 7/10 LRMP: 8/10 NTRS: 10/10 RIC: 5/5 Timing: 5/5 = **TOTAL 35**

Benefits & Ranking Criteria:

Timber Supply Review: Accurate Biogeoclimatice Ecosystem classification in the Kamloops Region are used as Analysis units for TSR.

Non-timber resource strategies: Standard BEC classification in the Kamloops region is a basic tool for ecosystem management in the Okanagan.

LRMP: Standards for land management activities in the Okanagan largely managed operationally based on accurate BEC.

Rational for Ranking: An essential basic for strategic land management of the Okanagan TSA.

Partnerships: Ministry of Forests, Okanagan TSA MOF Small Business Forest Enterprise Program, Ministry of Water, Land & Air, Bell Pole Company Ltd., Gorman Bros. Lumber Ltd., Federated Co-operatives Limited, LP Engineered Wood Products Ltd., Selkirk Timber Company, Tolko Industries Ltd., Weyerhaeuser Company Ltd., Okanagan Innovative Forestry Society IFPA.

Comments: BEC provides the foundation upon which PEM, VRI and Site Index Assignment are built on with the objective to provide reliable information for TSR3 in 2006. This proposal provides partnership funding of $142,000 in 2001/02 from the Okanagan TSA (Weyerhaeuser) to compliment Regional allocation already approved. Similar expenditures are expected in 2002/03.

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	Projected **2004/05**	Projected **2005/06**	**Projected 2006/07**	**5 Year Totals**
$142,000	**Costs($)**	$142,000	$0,000	$0,000	$0,000	$0,000	$142,000
ha	**Units**	Ha	ha	Ha	Ha	Ha	Ha
1,200,000	**Goals**	1,100,000					1,100,000

Note: The $ values included here include solely OK TSA contribution. It does not include overall BEC budget for 2001/02 & 2002/03

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: 1.1	**Title: PEM – SIBEC**	**Activity #:** 1.11 **OTEM2**

Description of the Activity: A Predictive Ecosystem Mapping project is proposed to provide the basis for a Site Index Assignment in the Okanagan TSA. A PEM supplemented with a future Vegetation Resource Inventory will also provide the tools for eventual modelling for both Timber and Non Timber Resource Values in the TSA.

Status:	**"New" OR Years in Progress?:** Year 2 of 3	**Priority Comments?:** #1 for the Okanagan TSA Licensees & SBFEP

Location: Okanagan TSA **Management Unit:** Okanagan TSA

Potential Lead Proponent: All Licensees, IFPA, Riverside

Objectives: The intent of a PEM for the Okanagan TSA is to provide an ecosystem-based justification for a Site Index Assignment. PEM will also support modelling for Non Timber Resources once supplemented with a Vegetation Resource Inventory in the intent of meeting the strategies of the OSLRMP.

PEM Project Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Air Photos 1:30000 DIAPs &ORTHOs Vernon or Penticton	April 30, 2002
PEM Sampling plan for the Okanagan Wet belt	May 30, 2002
Prelim SIBEC adjustment for Okanagan TSA Dry belt	June 30, 2002
PEM accuracy assessment Okanagan Drybelt	July 30, 2001
Final SIBEC adjustment for Okanagan TSA Dry belt & QA	August 31, 2002
Prelim Field accuracy verification for Okanagan TSA Wet belt	Nov 30, 2003
Preliminary Knowledge Base tables for Okanagan Wet Belt	March 31, 2003
Bioterrain mapping of the Okanagan TSA Wet Belt	March 31, 2003
PEM accuracy assessment for Okanagan TSA Wet belt	August 31, 2003
Final Knowledge Base tables for Okanagan Wet Belt	October 31, 2003
Preliminary SIBEC adjustment for Okanagan Wet belt	October 31, 2003
Preliminary Report for the Okanagan TSA	Nov 15, 2003
Final Report for Dry belt/Wet belt Okanagan TSA & QA	Dec 15, 2003

Benefits & Ranking Criteria:
TSR 7/10 LRMP 10/10 NTR 10/10 RIC 5/5 Timing 5/5 = **TOTAL 37**

Benefits & ranking Criteria:

Timber Supply Review: Bioterrain mapping – PEM and SIBEC assignment will be used to provide accurate estimate of growing potential (Site Index) for TSR

Non-Timber resource Strategies: PEM will provide the basic tools for ecosystem based planning for non timber resources and provide tools for non timber resource modelling.

LRMP: PEM provide the basic spatial distribution of ecosystems in the Okanagan TSA.

Other: PEM provides a basic land management tool for both Timber and NTRS planning.

Rational for Ranking: Beneficial tool for ecosystem landbased planning for TSR, LRMP and NTRS.

Partnerships: Ministry of Forests, Okanagan TSA MOF Small Business Forest Enterprise Program, Ministry of Water, Land & Air, Bell Pole Company Ltd., GormanBros. Lumber Ltd., Federated Co-operatives Limited, LP Engineered Wood Products Ltd., Selkirk Timber Company, Tolko Industries Ltd., Weyerhaeuser Co. Ltd., Okanagan Innovative Forestry Society.

Comments: PEM provides the basic tools to provide strategic Site Index Assignment input to supplement Veg. Inventory Phase 1 for TSR and prioritize future investments.

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	Projected **2004/05**	Projected **2005/06**	**Projected 2006/07**	**5 Year Totals**
$700,000	**Costs ($)**	$560,000	$200,000	$0,000	$0,000	$0,000	$760,000
Ha	**Units**	Ha	Ha	Ha	ha	Ha	Ha
600,000	**Goals**	900,00	100,000	0	0	0	1,000,000

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Trout Creek Level C**	**Activity #: OTSM1**

Description of the Activity: IN-PROGRESS – Trout Creek level C TSM to Re-assess/Re-map Terrain 4 & 5. Parcels of land have been either missed and/or mapped incorrectly in a previous FRBC TSM Mapping Project. The project will take those specific areas in question and conduct Detailed Terrain Stability Mapping (Level C). This will identify unstable or potentially unstable land areas via the character and distribution of surficial materials and the active geomorphic processes affecting the parcels of land in question. Maps will then be developed ranking specific areas as having moderate or high potential for landslides or surface erosion. Once completed, the work will not have to be re-done at the same intensity and will provide an information base for planning, operations and resource interactions.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location: TROUT CREEK

Management Unit: Okanagan TSA

Potential Lead Proponent: Gormans

Objectives: To complete the identification and mapping of unstable or potentially unstable land within the project area for use in strategic planning, AAC determination, and assessments linked to other resource uses.

Tasks, Deliverables, Targets & Milestones:
Final deliverables will consist of a Final Report and Final Map

Target Dates: **March 31, 2004**

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 3**	**LRMP =3**	**RIC = 5**	**Timing = 3**	**Total = 19**

Benefits & Ranking Criteria:

Timber Supply Review: Improves a gap or needed information on part of the TSA

Non-Timber Resource Strategies: Improves a gap or need on part of the TSA.

LRMP: Supports the location of WTP and OGMAs

Other:.. Refines the THLB. RIC standards plus reliable agency standards.

Rational for Ranking:
Sustainability cannot be achieved without reliable information on the stability of the land base supporting our forest resources. Terrain Stability (TSM) inventories contributes to management decisions; they upgrade the old ESA categories and provide links to other works including watershed restoration, ecosystem mapping, water quality, fisheries management and timber harvesting. These interacting concerns are central to achieving sustainability.

Additional Benefits:

Partnerships:

Comments: Project will consist of a re-assessment/re-mapping of Terrain Class 4 & 5 within the Trout Creek Community Watershed.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs**	$30,000	$10,000	$0,000	$0,000	$0,000	$40,000
ha	**Units**	ha	ha	Ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Silver/Gallon Level C**	**Activity #: OTSM4**

Description of the Activity:
Provide Detailed Terrain Stability Mapping (Level C) to identify unstable or potentially unstable land areas via the character and distribution of surficial materials and the active geomorphic processes affecting the site. Maps are then developed ranking specific areas as having moderate or high potential for landslides or surface erosion. Once completed, the work will not have to be re-done at the same intensity and provides an information base for planning, operations and resource interactions.

Status:	**"New" OR Years in Progress?**: 2 of 5??	**Priority Comments?**:

Location: Silver/Gallon crks

Management Unit:
Okanagan TSA

Potential Lead Proponent: Riverside

Objectives: To complete the identification and mapping of unstable or potentially unstable land within the project area for use in strategic planning, AAC determination, and assessments linked to other resource uses.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 3**	**LRMP =3**	**RIC = 5**	**Timing =4**	**Total = 20**

Benefits & Ranking Criteria:

Timber Supply Review: Improves a gap or needed information on part of the TSA

Non-Timber Resource Strategies: Improves a gap or need on part of the TSA.

LRMP: Supports the location of WTP and OGMAs.

Other:. Refines the THLB. RIC standards plus reliable agency standards.

Rational for Ranking:
Sustainability cannot be achieved without reliable information on the stability of the land base supporting our forest resources. Terrain Stability (TSM) inventories contributes to management decisions; they upgrade the old ESA categories and provide links to other works including watershed restoration, ecosystem mapping, water quality, fisheries management and timber harvesting. These interacting concerns are central to achieving sustainability.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$18,000	**Costs ($$)**	$18,000	$18,000	$18,000	$18,000	$0,000	$72,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Greenbush Level C**	**Activity #: OTSM5**

Description of the Activity:
Provide Detailed Terrain Stability Mapping (Level C) to identify unstable or potentially unstable land areas via the character and distribution of surficial materials and the active geomorphic processes affecting the site. Maps are then developed ranking specific areas as having moderate or high potential for landslides or surface erosion. Once completed, the work will not have to be re-done at the same intensity and provides an information base for planning, operations and resource interactions.

Status:	**"New" OR Years in Progress?:** May be deferred 01_02	**Priority Comments?:**

Location: Greenbush Lk	**Management Unit:** Okanagan TSA

Potential Lead Proponent: Riverside Lumby

Objectives: To complete the identification and mapping of unstable or potentially unstable land within the project area for use in strategic planning, AAC determination, and assessments linked to other resource uses.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 3**	**LRMP =3**	**RIC = 5**	**Timing =3**	**Total =19**

Benefits & Ranking Criteria:

Timber Supply Review: Improves a gap or needed information on part of the TSA

Non-Timber Resource Strategies: Improves a gap or need on part of the TSA.

LRMP: Supports the location of WTP and OGMAs.

Other: Refines the THLB. RIC standards plus reliable agency standards.

Rational for Ranking:
Sustainability cannot be achieved without reliable information on the stability of the land base supporting our forest resources. Terrain Stability (TSM) inventories contributes to management decisions; they upgrade the old ESA categories and provide links to other works including watershed restoration, ecosystem mapping, water quality, fisheries management and timber harvesting. These interacting concerns are central to achieving sustainability.

Additional Benefits:

Partnerships:

Comments: *Note: the funds placed on this project may be redirected to the IFPA and out of this type of activity If the funds are not required for the IFPA, then there will be additional TSM projects undertaken.*

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$49,244	**Costs ($$)**	$136,000	$136,000	$136,000	$136,000	$136,000	680,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Harris/Duteau Level C**	**Activity #: OTSM6**

Description of the Activity:
Provide Detailed Terrain Stability Mapping (Level C) to identify unstable or potentially unstable land areas via the character and distribution of surficial materials and the active geomorphic processes affecting the site. Maps are then developed ranking specific areas as having moderate or high potential for landslides or surface erosion. Once completed, the work will not have to be re-done at the same intensity and provides an information base for planning, operations and resource interactions.

Status:	"New" OR Years in Progress?: 2nd year in Progress	Priority Comments?:

Location: Harris and Duteau Watersheds

Management Unit: Okanagan TSA

Potential Lead Proponent: Riverside Lumby Division

Objectives: To complete the identification and mapping of unstable or potentially unstable land within the project area for use in strategic planning, AAC determination, and assessments linked to other resource uses.

Tasks, Deliverables, Targets & Milestones:	Target Dates: Location

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 3**	**LRMP =3**	**RIC = 5**	**Timing =3**	**Total =19**

Benefits & Ranking Criteria:

Timber Supply Review: Improves a gap or needed information on part of the TSA

Non-Timber Resource Strategies: Improves a gap or need on part of the TSA.

LRMP: Supports the location of WTP and OGMAs.

Other: Refines the THLB. RIC standards plus reliable agency standards.

Rational for Ranking:
Sustainability cannot be achieved without reliable information on the stability of the land base supporting our forest resources. Terrain Stability (TSM) inventories contributes to management decisions; they upgrade the old ESA categories and provide links to other works including watershed restoration, ecosystem mapping, water quality, fisheries management and timber harvesting. These interacting concerns are central to achieving sustainability.

Additional Benefits:

Partnerships:

Comments: .

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$30,000	**Costs ($$)**	27,560	27,560	27,560	27,560	27,560	$137,800
ha	**Units**	ha	ha	ha	ha	ha	ha
N/a	**Goals**	40,191	10,000	10,000	10,000	10,000	80,191

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Wap Creek Level C**	**Activity #: OTSM7**

Description of the Activity:
Provide Detailed Terrain Stability Mapping (Level C) to identify unstable or potentially unstable land areas via the character and distribution of surficial materials and the active geomorphic processes affecting the site. Maps are then developed ranking specific areas as having moderate or high potential for landslides or surface erosion. Once completed, the work will not have to be re-done at the same intensity and provides an information base for planning, operations and resource interactions.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location: Riverside operating area in the Wap watershed area

Management Unit: Okanagan TSA

Potential Lead Proponent: Riverside Forest Products, Armstrong Division

Objectives: To complete the identification and mapping of unstable or potentially unstable land within the project area for use in strategic planning, AAC determination, and assessments linked to other resource uses.

Tasks, Deliverables, Targets & Milestones:

Target Dates: Location

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 3**	**LRMP =3**	**RIC = 5**	**Timing =3**	**Total =19**

Benefits & Ranking Criteria:

Timber Supply Review: Improves a gap or needed information on part of the TSA

Non-Timber Resource Strategies: Improves a gap or need on part of the TSA.

LRMP: Supports the location of WTP and OGMAs

Other:.. Refines the THLB. RIC standards plus reliable agency standards.

Rational for Ranking:
Sustainability cannot be achieved without reliable information on the stability of the land base supporting our forest resources. Terrain Stability (TSM) inventories contributes to management decisions; they upgrade the old ESA categories and provide links to other works including watershed restoration, ecosystem mapping, water quality, fisheries management and timber harvesting. These interacting concerns are central to achieving sustainability.

Additional Benefits:

Partnerships:

Comments: *Note: the funds placed on this project may be redirected to the IFPA and out of this type of activity If the funds are not required for the IFPA, then there will be additional TSM projects undertaken.*

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$53,607	**Costs ($$)**	$27,000	$27,000	$27,000	$27,000	$27,000	$108,000
ha	**Units**	ha	ha	ha	ha	ha	ha
N/a	**Goals**	20,908	20,908	20,908	20,908	20,908	104,540

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Fill in Level C Gaps**	**Activity #: OTSM8**

Description of the Activity:
Parcels of land have been missed in previous TSM mapping. On those areas, provide Detailed Terrain Stability Mapping (Level C) to identify unstable or potentially unstable land areas via the character and distribution of surficial materials and the active geomorphic processes affecting the site. Maps are then developed ranking specific areas as having moderate or high potential for landslides or surface erosion. Once completed, the work will not have to be re-done at the same intensity and provides an information base for planning, operations and resource interactions.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location: Federated operating area	**Management Unit:** Okanagan TSA

Potential Lead Proponent: Federated

Objectives: To complete the identification and mapping of unstable or potentially unstable land within the project area for use in strategic planning, AAC determination, and assessments linked to other resource uses.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 3**	**LRMP =3**	**RIC = 5**	**Timing =3**	**Total =19**

Benefits & Ranking Criteria:

Timber Supply Review: Improves a gap or needed information on part of the TSA

Non-Timber Resource Strategies: Improves a gap or need on part of the TSA.

LRMP:

Other:. Supports the location of WTP and OGMAs. Refines the THLB. RIC standards plus reliable agency standards.

Rational for Ranking:
Sustainability cannot be achieved without reliable information on the stability of the land base supporting our forest resources. Terrain Stability (TSM) inventories contributes to management decisions; they upgrade the old ESA categories and provide links to other works including watershed restoration, ecosystem mapping, water quality, fisheries management and timber harvesting. These interacting concerns are central to achieving sustainability.

Additional Benefits:

Partnerships:

Comments: Could this be a duplicate project with OTSM9? And OTSM10?

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 06/07**	**5 Year Totals**
$50,000	**Costs ($$)**	$50,000	$50,000	$50,000	$50,000	$0,000	$200,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Level C – SA Dist**	**Activity #: OTSM9**

Description of the Activity:
Provide Detailed Terrain Stability Mapping (Level C) to identify unstable or potentially unstable land areas via the character and distribution of surficial materials and the active geomorphic processes affecting the site. Maps are then developed ranking specific areas as having moderate or high potential for landslides or surface erosion. Once completed, the work will not have to be re-done at the same intensity and provides an information base for planning, operations and resource interactions.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Okanagan TSA

Potential Lead Proponent:

Objectives: To complete the identification and mapping of unstable or potentially unstable land within the project area for use in strategic planning, AAC determination, and assessments linked to other resource uses.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 3**	**LRMP =3**	**RIC = 5**	**Timing = 0**	**Total =16**

Benefits & Ranking Criteria:

Timber Supply Review: Improves a gap or needed information on part of the TSA

Non-Timber Resource Strategies: Improves a gap or need on part of the TSA.

LRMP:

Other:. Supports the location of WTP and OGMAs. Refines the THLB. RIC standards plus reliable agency standards.

Rational for Ranking:
Sustainability cannot be achieved without reliable information on the stability of the land base supporting our forest resources. Terrain Stability (TSM) inventories contributes to management decisions; they upgrade the old ESA categories and provide links to other works including watershed restoration, ecosystem mapping, water quality, fisheries management and timber harvesting. These interacting concerns are central to achieving sustainability.

Additional Benefits:

Partnerships:

Comments: Appears to be a new project potential duplication with OTSM8 & 10

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$130,000	$100,000	$0,000	$0,000	$0,000	$230,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Terrain Stability Mapping**	**Activity #: OTSM10**

Description of the Activity: Complete Level C (detailed TSM – DTSM) mapping of areas with steep and complex terrain, especially those areas being considered for resource planning or other development.

Status:	**"New" OR Years in Progress?:** In Progress	**Priority Comments?:** Continuation of district mapping program.

Location: Salmon Arm Forest District – FedCo Op Area	**Management Unit:**

Potential Lead Proponent: Federated Co-operatives Limited (FCL)

Objectives: To complete Level C TSM within FCL's operating area in the Salmon Arm Forest District.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 3**	**LRMP =3**	**RIC = 5**	**Timing = 0**	**Total =16**

Benefits & Ranking Criteria:

Timber Supply Review: Improves a gap or needed information on part of the TSA

Non-Timber Resource Strategies: Improves a gap or need on part of the TSA.

LRMP: Supports the location of WTP and OGMAs.

Other: Refines the THLB. RIC standards plus reliable agency standards.

Rational for Ranking:

Sustainability cannot be achieved without reliable information on the stability of the land base supporting our forest resources. Terrain Stability (TSM) inventories contributes to management decisions; they upgrade the old ESA categories and provide links to other works including watershed restoration, ecosystem mapping, water quality, fisheries management and timber harvesting. These interacting concerns are central to achieving sustainability.

Additional Benefits:

Partnerships: FCL/MOF

Comments: Work is deferred for 2001-2002. Project slated to continue in 2002-2003. Concern that this is duplicate project with OTSM8 &9

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$50,000	$50,000	$50,000	$0,000	$0,000	$150,000
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title: Visuals on Hiways/Lakes**	**Activity #: OVA1**

Description of the Activity: Inventory review of various hwys and completion of 42 lakes as required by LRMP and update of old corridor mapping to new RIC standards.

Status:	**"New" OR Years in Progress?**: NEW	**Priority Comments?**: High

Location: Vernon District

Management Unit: OK TSA

Potential Lead Proponent: Riverside/Tolko/ Weyco (3 operating areas)

Objectives: Complete VLI and VQO assessments & ensure previously completed works are reliable for strategic planning.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR = 6	**NTRS = 3**	**LRMP = 8**	**RIC = 5**	**Timing =3**	**Total =25**

Benefits & Ranking Criteria:

Timber Supply Review: The visual landscape inventories and resulting VQOs are a significant consideration in determining the amount and rate of harvest and thus the AAC determination. Constraints on visually sensitive areas also impact the harvesting methods and thus impact timber availability in terms of timing (green up, etc).

Non-Timber Resource Strategies: Visual Aesthetics directly affects the tourism industry, recreationalists and local residents if forestry activities are not designed and implemented consistent with the Visual Quality Objectives (VQO's

LRMP: Visual management is required by LRMP. Stakeholders in the LRMP process have recognised the need and value of visual landscape inventories for sustainability. Accurate inventories and assessments of impacts are needed to meet the needs of this higher level planning process.

Other: old visual inventories are not to new RIC standards.

Rational for Ranking: required by LRMP and TSR process. Managing for visual quality is particularily important in the Okanagan TSA due to the significance of tourism to the region. Visual landscape inventories are both social and ecological concerns. Visual impact of harvesting has highlighted the importance of scenic quality and natural landscapes. The quality of the landscapes is very important to the diverse tourism industry in the Province and an important factor in the achievement of sustainability. Visual inventories provide the basis for recommending scenic areas and VQOs that in turn define levels of visual change on selected areas. As a part of landscape analysis, the VQOs provide options for different styles of management considering the biophysical, economic and social aspects related to sustainability. These objectives impact the available landbase, harvesting constraints and management decisions which in turn affects TSR's and LRMP's.

Additional Benefits: : improved public acceptance of forest practices

Partnerships: potential through First Nations contracting

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs**	$38,000	$19,000	$19,000	$19,000	$19,000	$114,000
Mapsheets	**Units**	mapsheets	mapsheets	mapsheets	mapsheets	mapsheets	mapsheets
0	**Goals**	42 lakes and 17 corridor mapsheets	19corridor mapsheets	19 corridor mapsheets	19 corridor mapsheets	19 corridor mapsheets	42 lakes and 93 corridor mapsheets

Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title: Visuals on Hiways & 2 Lks**	**Activity #: OVA3**

Description of the Activity: Inventory review of various hwys and 2 lakes as required by LRMP, update of Shuswap Lake inventory, and update of old corridor mapping to new RIC standards.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Salmon Arm District **Management Unit**: OK TSA

Potential Lead Proponent: .Fed Coop/ Tolko/ Riverside operating areas

Objectives: Complete VLI and VQO assessments & ensure that previously completed works are reliable for strategic planning.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** Location

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 4**	**LRMP = 8**	**RIC = 5**	**Timing = 2**	**Total =24**

Benefits & Ranking Criteria:

Timber Supply Review: The visual landscape inventories and resulting VQOs are a significant consideration in determining the amount and rate of harvest and thus the AAC determination. Constraints on visually sensitive areas also impact the harvesting methods and thus impact timber availability in terms of timing (green up, etc).

Non-Timber Resource Strategies: Required by legislation. Visual Aesthetics directly affects the tourism industry, recreationalists and local residents if forestry activities are not designed and implemented consistent with the Visual Quality Objectives (VQO's

LRMP: Visual management is required by LRMP. Stakeholders in the LRMP process have recognised the need and value of visual landscape inventories for sustainability. Accurate inventories and assessments of impacts are needed to meet the needs of this higher level planning process.

Other: old visual inventories are not to new RIC standards.

Rational for Ranking: required by LRMP and TSR process. Managing for visual quality is particularily important in the Okanagan TSA due to the significance of tourism to the region.

Visual landscape inventories are both social and ecological concerns. Visual impact of harvesting has highlighted the importance of scenic quality and natural landscapes. The quality of the landscapes is very important to the diverse tourism industry in the Province and an important factor in the achievement of sustainability. Visual inventories provide the basis for recommending scenic areas and VQOs that in turn define levels of visual change on selected areas. As a part of landscape analysis, the VQOs provide options for different styles of management considering the biophysical, economic and social aspects related to sustainability. These objectives impact the available landbase, harvesting constraints and management decisions which in turn affects Timber Supply Reviews (TSR's) and Land and Resource Management Plans (LRMP's).

Additional Benefits: improved public acceptance of forest practices

Partnerships: potential through First Nations contracting

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs**	$30,000	$15,000	$15,000	$15,000	$15,000	$90,000
mapsheets	**Units**	mapsheets	mapsheets	mapsheets	mapsheets	mapsheets	mapsheets
0	**Goals**	2 lakes, 37 mapsheets	15	15	15	15	2 lakes, 97 mapsheets,

Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title: Visuals – 17 Lakes**	**Activity #: OVA4**

Description of the Activity: Complete mapping of A, B, and C quality lakes as directed by LRMP, and update previous corridor mapping to new RIC standards

Status:	**"New" OR Years in Progress?**: NEW	**Priority Comments?**:

Location: Penticton District	**Management Unit**: Okanagan TSA

Potential Lead Proponent: Gormans ($2500) Weyco ($7000) Riverside ($5000)

Objectives: Complete VLI and VQO assessments & ensure that previously completed works are reliable for strategic planning.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 5**	**LRMP = 8**	**RIC = 5**	**Timing =3**	**Total =26**

Benefits & Ranking Criteria:

Timber Supply Review: Up-to -date info is required for TSR. The visual landscape inventories and resulting VQOs are a significant consideration in determining the amount and rate of harvest and thus the AAC determination. Constraints on visually sensitive areas also impact the harvesting methods and thus impact timber availability in terms of timing (green up, etc).

Non-Timber Resource Strategies: Visual Aesthetics directly affects the tourism industry, recreationalists and local residents if forestry activities are not designed and implemented consistent with the Visual Quality Objectives (VQO's

LRMP: Visual management is required by LRMP. Stakeholders in the LRMP process have recognised the need and value of visual landscape inventories for sustainability..

Other: old visual inventories are not to new RIC standards.

Rational for Ranking: required by LRMP and TSR process. Managing for visual quality is particularily important in the Okanagan TSA due to the significance of tourism to the region.

Visual landscape inventories are both social and ecological concerns. Visual impact of harvesting has highlighted the importance of scenic quality and natural landscapes. The quality of the landscapes is very important to the diverse tourism industry in the Province and an important factor in the achievement of sustainability. Visual inventories provide the basis for recommending scenic areas and VQOs that in turn define levels of visual change on selected areas. As a part of landscape analysis, the VQOs provide options for different styles of management considering the biophysical, economic and social aspects related to sustainability. These objectives impact the available landbase, harvesting constraints and management decisions which in turn affects Timber Supply Reviews (TSR's) and Land and Resource Management Plans (LRMP's).

Additional Benefits: improved public acceptance of forest practices

Partnerships: potential through First Nations contracting

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs**	$14,500	$18,000	$18,000	$18,000	$18,000	$86,500
ha	**Units**	ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: #1.1	**Title: VRI**	**Activity :** 1.18 **OVRI 1**

Description of the Activity: Completion of a Phase 1 Vegetation Resources Inventory for the Okanagan TSA. Air photography is being completed in 2001. Delineation, sampling, classification, photo interpretation and mapping to follow over the next four years (2002-2005) Updating of the TSA database to follow (MOF) for use in strategic and operational planning processes. Existing forest cover information dates back to the late 1960's and an inventory of the timber resources is in need of updating.

Status:	"New" OR Years in Progress?: Year 2 of 4	**Priority Comments?:** All Licensees & SBFEP consider this high priority for Okanagan TSA

Location: Okanagan TSA **Management Unit**: Okanagan TSA

Potential Lead Proponent: All Licensees, Stakeholder

Objectives: To provide reliable vegetation inventories to existing standards by replacing existing forest cover inventories. Previous updated inventories were last done in 1979.

PEM Project Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Complete Air Photography for the TSA. Softcopy images	2001
Initial Planning and complete 1/3 of TSA and remaining Softcopy	**20022003 - 2004**
Complete 1/3 of TSA each year.	

Benefits & Ranking Criteria:

TSR = 10 NTRS = 10 NTR = 10 RIC = 5 Timing 5 = TOTAL 40

Benefits & Ranking Criteria:

Timber Supply review: Provide further certainty around the AAC determination.

LRMP: Most of the assumptions and recommendations from the LRMP are reliant on an accurate estimate of the vegetation resources. A revised inventory could affect OGMAs, biodiversity, LUPs, base case scenarios, LRUPs, other resource options.

Non-Timber resource Strategies: Reliable information on the quantity, location and extent of the forest and vegetation resources is an essential component of NTRS. Strategic and operational planning for these other resources requires VRI.

Other: RIC standards are well established for this project.

Rational for Ranking: An essential need for all other inventories and plans

Partnerships: Ministry of Forests, Okanagan TSA MOF Small Business Forest Enterprise Program, Ministry of Water, Land & Air, Bell Pole Company Ltd., Gorman Bros. Lumber Ltd., Federated Co-operatives Limited, LP Engineered Wood Products Ltd., Selkirk Timber Company, Tolko Industries Ltd., Weyerhaeuser Company Ltd., Okanagan Innovative Forestry Society IFPA.

Comments: Completion of the Okanagan VRI will be used in other TSA projects

Previous Investment		**Recommended Investments – Photos**					
Previous 2001/02	Activity Item	**Current 2002/03**	Projected 2003/04	**Projected 2004/05**	**Projected 2005/06**	Projected 2006/07	**5 Year Totals**
$100,000	**Costs ($$)**	$330,000	$275,000	$230,000	$0,000	$0,000	$835,000
Photos	**Units**	Ha	Ha	ha	ha	Ha	Ha
TSA	**Goals**	725,00	725,000	725,000			2,175,000

VRI costs reflect partnership agreement between 40% FRBC and 60% RIB Total cost = 2,087,500

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Penticton WQ**	**Activity #: OWQ1**

Description of the Activity: Water quality study in the Penticton Creek and Shuttleworth Creek watersheds.

Status:	**"New" OR Years in Progress?:** Three years in progress	**Priority Comments?:**

Location: Penticton Forest District

Management Unit: Okanagan TSA

Potential Lead Proponent: Weyerhaeuser

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: Three years of water sampling were complete as of March 31/01. Auto stations only were operated to June 15, 2001. Project requires completion of the final water quality assessment and objectives report

Target Dates: Project complete March 31, 2003.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing = 5**	**Total =29**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Setting water quality objectives in community watersheds is specifically identified as a need in the OKSLRMP and resolves an important gap.

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$16,000	**Costs ($$)**	$16,000	$0	$0	$0	$0,000	$16,000
reports	**Units**	reports	reports	reports	reports	reports	reports
6	**Goals**	2	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Upper Kelowna Crk WQ**	**Activity #: OWQ2**

Description of the Activity: Water quality study in the Upper Kelowna Creek area watershed upstream of Postill Lake.

Status:	**"New" OR Years in Progress?**: Two years in progress	**Priority Comments?**:

Location: Penticton Forest District	**Management Unit**: Okanagan TSA

Potential Lead Proponent: Riverside Forest Products Ltd..

Objectives: Determine the impact of logging activities in the Upper Kelowna Creek watershed on water quality in Postill Lake

Tasks, Deliverables, Targets & Milestones: Two years of water sampling will be complete as of March 31/02. Continue water sampling 2002/03 followed by completion of the final report.	**Target Dates:** Project complete March 31, 2003.

Benefits & Ranking Criteria:

TSR =5	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing = 5**	**Total =29**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: To be determined locally

LRMP: To be determined locally

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$5,000	**Costs ($$)**	8,000	$0	$0	$0	$0,000	$8,000
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Joe Rich WQ**	**Activity #: OWQ3**

Description of the Activity: Water quality study in tributaries in the Lower Joe Rich Creek area watershed.

Status:	**"New" OR Years in Progress?:** Two years in progress	**Priority Comments?:**

Location: Penticton Forest District

Management Unit: Okanagan TSA

Potential Lead Proponent: Gorman Bros Lumber Co.

Objectives: Determine the impact of logging activities in the Mission Creek watershed on water quality in tributaries to Joe Rich Creek in the lower elevation areas of the watershed.

Tasks, Deliverables, Targets & Milestones: Two years of water sampling will be complete as of March 31/02. Continue water sampling through 2002/03 followed by completion of the final report.

Target Dates: Project complete March 31, 2003.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing = 5**	**Total =29**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: To be determined locally

LRMP: To be determined locally

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rationale for Ranking:

Additional Benefits:

Partnerships

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$9,000	**Costs ($$)**	$9,000	$0	$0	$0	$0,000	$9,000
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ | **Title: Deer Creek WQ** | **Activity #: OWQ4**

Description of the Activity: Water quality study in the Deer Creek community watershed.

Status: **"New" OR Years in Progress?:** Three years in progress | **Priority Comments?:**

Location: Vernon Forest District | **Management Unit:** Okanagan TSA

Potential Lead Proponent: Tolko Industries Ltd. Lavington Planer Division

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: Three years of water sampling will complete as of July 31, 2002 followed by completion of the final water quality assessment and objectives report

Target Dates: Project will be complete March 31, 2003.

Benefits & Ranking Criteria:

TSR = 5	NTRS = 7	LRMP =7	RIC = 5	Timing = 5	Total =29

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Setting water quality objectives in community watersheds is specifically identified as a need in the OKSLRMP and resolves an important gap.

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$35,000	Costs ($$)	$17,500	$0	$0	$0	$0,000	$17,500
reports	Units	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Keremeos WQ**	**Activity #: OWQ5**

Description of the Activity: Water quality study in the Keremeos Creek, Shingle Creek and Shatford Creek watersheds.

Status:	"New" OR Years in Progress?: Three years in progress	Priority Comments?:

Location: Penticton Forest District

Management Unit: Okanagan TSA

Potential Lead Proponent: Weyerhaeuser

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: Three years of water sampling were complete as of March 31/01. Auto stations only were operated to June 15, 2001. Project requires completion of the final water quality assessment and objectives report

Target Dates: Project complete March 31, 2003.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing = 5**	**Total =29**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Setting water quality objectives in community watersheds is specifically identified as a need in the OKSLRMP and resolves an important gap.

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rationale for Ranking:

Additional Benefits:

Partnerships: First Nations of the Okanagan Similkameen

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$47,500	**Costs ($$)**	$24,000	$0	$0	$0	$0,000	$24,000
reports	**Units**	reports	reports	reports	reports	reports	reports
6	**Goals**	2	0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Chase Creek WQ**	**Activity #: OWQ6**

Description of the Activity: Water quality study in the Chase Creek watershed.

Status:	**"New" OR Years in Progress?:** Three years in progress	**Priority Comments?:**

Location: Vernon Forest District	**Management Unit:** Okanagan TSA

Potential Lead Proponent: Riverside Forest Products Ltd.

Objectives: Determine the impact of logging on water quality in the upper Chase Creek watershed.

Tasks, Deliverables, Targets & Milestones: Three years of water sampling complete as of March 31, 2001. Preparation of the final report is required to finalise the project.	**Target Dates:** Project will be complete March 31, 2003.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing = 5**	**Total =29**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: To be determined locally

LRMP: To be determined locally

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$10,000	**Costs ($$)**	$8,000	$0	$0	$0	$0,000	$8,000
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue:	**Title: Water Quality Assessment – Chase Creek**	**Activity #: OWQ6**

Description of the Activity: Hydrometric Water monitoring on Chase Creek to support the Chase Creek Watershed Management Plan. Combined with previous OWQ6

Status:	**"New" OR Years in Progress?:** ONGOING	**Priority Comments:**

Location: near Village of Chase	**Management Unit:** Okanagan

Potential Lead Proponent: Riverside Forest Products, Armstrong Division

Objectives:
Collect information that will provide feedback to the Chase Adaptive Management Plan

Tasks, Deliverables, Targets & Milestones: Annual Reports **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 5	NTRS = 7	LRMP =7	RIC = 5	Timing =3	Total =27

Rationale for Ranking:

Additional Benefits:

Partnerships: Chase Creek Community Association, plus MoF, MoE

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$10,000	**Costs ($$)**	$0,000	$10,000	$10,000	$10,000	$10,000	50,000
ha	**Units**	ha	ha	ha	ha	ha	ha
1 report	**Goals**	1 report	1 report	1 report	1 report	1 report	5 reports

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Brash Creek WQ**	**Activity #: OWQ7**

Description of the Activity: Water quality study in the Brash Creek community watershed.

Status:	**"New" OR Years in Progress?:** Three years in progress	**Priority Comments?:**

Location: Salmon Arm Forest District

Management Unit: Okanagan TSA

Potential Lead Proponent: Federated Coop

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: Three years of water sampling complete as of March 31, 2001. Preparation of the final water quality assessment and objectives report is required to finalise the project.

Target Dates: Project will be complete March 31, 2003.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing = 5**	**Total =29**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Setting water quality objectives in community watersheds is specifically identified as a need in the OKSLRMP and resolves an important gap.

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$52,500	**Costs ($$)**	$8,000	$0	$0	$0	$0,000	$8,000
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Meighan Creek WQ**	**Activity #: OWQ8**

Description of the Activity: Water quality study in the Meighan Creek community watershed.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Vernon Forest District	**Management Unit:** Okanagan TSA

Potential Lead Proponent:

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: If the project commences April 1, 2002, three years of water sampling will be complete as of July 31, 2005 followed by preparation of the final water quality assessment and objectives report in the year following sample collection.	**Target Dates:** Project will be complete March 31, 2006.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing =0**	**Total =24**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Setting water quality objectives in community watersheds is specifically identified as a need in the OKSLRMP and resolves an important gap.

Other:. Approved (published) RIC standards apply to all components of the deliverables.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments: LRMP water quality objectives be established for community watersheds on a priority basis. Only where the community is actively using and is reliant on the source are those watersheds being proposed as new projects.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$17,500	$17,500	$17,500	$8,000	$0,000	$60,500
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Glanzier Creek WQ**	**Activity #: OWQ9**

Description of the Activity: Water quality study in the Glanzier Creek community watershed.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Vernon Forest District	**Management Unit:** Okanagan TSA

Potential Lead Proponent:

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: If the project commences April 1, 2002, three years of water sampling will be complete as of July 31, 2005 followed by preparation of the final water quality assessment and objectives report.	**Target Dates:** Project will be complete March 31, 2006.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing =0**	**Total =24**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Setting water quality objectives in community watersheds is specifically identified as a need in the OKSLRMP and resolves an important gap.

Other:. Approved (published) RIC standards apply to all components of the deliverables.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments: LRMP water quality objectives be established for community watersheds on a priority basis. Only where the community is actively using and is reliant on the source are those watersheds being proposed as new projects.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$17,500	$17,500	$17,500	$8,000	$0,000	$60,500
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title: Fortune Creek WQ**	**Activity #: OWQ10**

Description of the Activity: Water quality study in the Fortune Creek community watershed.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:**

Location: Vernon Forest District	**Management Unit:** Okanagan TSA

Potential Lead Proponent:

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: If the project commences April 1, 2002, three years of water sampling will be complete as of July 31, 2005 followed by preparation of the final water quality assessment and objectives report.	**Target Dates:** Project will be complete March 31, 2006.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing =0**	**Total =24**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Setting water quality objectives in community watersheds is specifically identified as a need in the OKSLRMP and resolves an important gap.

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments: LRMP water quality objectives be established for community watersheds on a priority basis. Only where the community is actively using and is reliant on the source are those watersheds being proposed as new projects.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$17,500	$17,500	$17,500	$8,000	$0,000	$60,500
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WQ | **Title: Naramata Creek WQ** | **Activity #: OWQ11**

Description of the Activity: Water quality study in the Naramant Creek community watershed.

Status: **"New" OR Years in Progress?:** New | **Priority Comments?:**

Location: Penticton Forest District | **Management Unit:** Okanagan TSA

Potential Lead Proponent:

Objectives: Knowledge of the state of natural water quality entering community watershed diversion works is largely unknown. Water samples will be collected and analysed for parameters important for drinking water quality. Using the results an assessment of water quality will be made and objectives will be set based on ambient conditions. The purpose of the activity is to gain knowledge of the present state of water quality and to set water quality objectives.

Tasks, Deliverables, Targets & Milestones: If the project commences April 1, 2002, three years of water sampling will be complete as of July 31, 2005 followed by preparation of the final water quality assessment and objectives report.

Target Dates: Project will be complete March 31, 2006.

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 7**	**LRMP =7**	**RIC = 5**	**Timing =0**	**Total =24**

Timber Supply Review: To be determined locally

Non-Timber Resource Strategies: Water quality assessment and objectives for drinking water sources will be specifically identified in the Water NTRS and will resolve an important knowledge gap.

LRMP: Setting water quality objectives in community watersheds is specifically identified as a need in the OKSLRMP and resolves an important gap.

Other:. Approved (published) RIC standards apply to all components of the deliverables. Ongoing project is partially complete; current investment would be lost if final report is not completed.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments: LRMP water quality objectives be established for community watersheds on a priority basis. Only where the community is actively using and is reliant on the source are those watersheds being proposed as new projects.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$17,500	$17,500	$17,500	$8,000	$0,000	$60,500
reports	**Units**	reports	reports	reports	reports	reports	reports
	Goals		0	0	0	0	0

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Access Planning - Okanagan**	**Activity #: OWWH1**

Description of the Activity: Prioritise the areas in the Okanagan TSA that require access planning using guidance from the LRMP. Identify public involvement process and timelines. In year two start implementing access management plans.

Status:	New	**Priority Comments:** Priority areas to be determined during process.

Location: Areas of concern to be determined as part of activity.	**Management Unit:** Okanagan TSA

Potential Lead Proponent: Ministry of Water, Land and Air Protection /Licensees TBA

Objectives: To prioritise areas that require access planning in the TSA

Tasks, Deliverables, Targets & Milestones: Prioritisation of access management areas within the MU. Timelines and public involvement processes to be determined. Complete one management plan per year, sign, advertise etc.	**Target Dates:** Plan in place by Dec. 2002

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 5**	**LRMP = 7**	**RIC = 4**	**Timing = 2**	**Total = 21**

Rationale for Ranking: Not mentioned in TSR, but info will be required for future TSRs. This activity should resolve a major component of the information gap on a portion of the TSA. Specifically mentioned as a requirement of the OKSLRMP. This project will contribute to meeting the objectives of the NTRS – 'Wildlife Inventory Strategy for Ungulates and Game Species.' This is a new project. Lack of completion will delay critical decisions however will be implemented over a 5 year period. RIC standards apply to all critical components.

Additional Benefits: Early public involvement in access planning

Partnerships:

Comments: Is this a duplicate project with IFPA Access Plan / Sheep Kill?

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$6000	$0	$0	$6,000	$0	$12,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH **Title: Naramata Elk** **Activity #: OWWH2**

Description of the Activity: Inventory of the Naramata Elk population.

Status: New

Priority Comments: The priority species for inventory are goat, mule deer, elk, sheep, moose and white tailed deer.

Location: Naramata

Management Unit: Okanagan TSA

Potential Lead Proponent: WLAP/ Gorman Bros, Weyerhauser

Objectives: To inventory the Naramata elk herd and monitor trends to achieve harvest objectives as defined in the Wildlife Harvest Strategy.

Tasks, Deliverables, Targets & Milestones: To conduct a post harvest count to meet objectives.

Target Dates: February, 2002

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 6**	**LRMP = 5**	**RIC = 4**	**Timing = 2**	**Total = 20**

Rationale for Ranking: Not mentioned in TSR, but info will be required for future TSRs. An indirect concern in the OKSLRMP, this information will be required for future decisions. This activity should resolve a major component of the information gap but follow up work over 4 yrs is anticipated. This activity is a requirement of the NTRS – Wildlife Inventory Strategy for Ungulates and Game Species. Lack of completion will delay critical decisions. RIC standards apply to all critical components

Additional Benefits: Information can be used for others including local government for planning purposes.

Partnerships: Parks

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$6,000	0	0	$6,000	0	$12,000
ha	**Units**	ha	ha	ha	ha	ha	Ha
	Goals						

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Goat Inventory – Shuswap**	**Activity #: OWWH3**

Description of the Activity: Inventory of selected goat herds in the Shuswap- Salmon Arm area within the Okanagan TSA. Some populations are hunted under LEH others are not. These herds have historic and new road access within or in close proximity to their habitat.

Status:	New	**Priority Comments:** The priority species for inventory are goat, mule deer, elk, sheep, moose, and white tailed deer.

Location: Eagle River to Seymour River headwaters	**Management Unit**: Okanagan TSA

Potential Lead Proponent: Evans, Federated, Small Business

Objectives: To inventory goat populations and monitor trends. Inventories will also ensure the AAH is sustainable

Tasks, Deliverables, Targets & Milestones:	**Target Dates**
Complete an accurate count of goats within each herd.	Inventory July/August Write up fall

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 6**	**LRMP =5**	**RIC = 4**	**Timing =2**	**Total = 20**

Rationale for Ranking:
Not mentioned in TSR, but info. will be required for future TSRs. This activity should resolve a major component of the information gap on a portion of the TSA and follow-up work is required. Maintaining goat populations is a goal of the OKSLRMP. Inventory is required to achieve LRMP goals and the objectives of the NTRS, 'Wildlife Inventory Strategy for Ungulates and Game Species.' This is a new project. Lack of completion will delay critical decisions regarding the AAH and access strategies however project maybe implemented over a 4 year period. RIC standards apply to all critical components.

Additional Benefits:
Inventory information can be used by other agencies that regulate CBR and mining.

Partnerships:

Comments: Goats are vulnerable to timber management particularly road development and hunting. Existing and future access into goat habitat makes goat vulnerable to hunting and poaching.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$30,000			$30,000		$60,000
ha	**Units**	ha	ha	ha	ha	ha	Ha
	Goals						

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Goat Inventory – Okanagan**	**Activity #: OWWH4**

Description of the Activity: Inventory of selected goat herds within the Penticton/Vernon Forest Districts. Some populations are hunted under LEH others are not. These herds have historic and new road access within or in close proximity to their habitat.

Status:	New	**Priority Comments**: The priority species for inventory are goat, mule deer, elk, sheep, moose, and white tailed deer.

Location: Ashnola, Penticton Creek and Upper Shuswap River	**Management Unit**: Okanagan TSA

Potential Lead Proponent: WLAP/Riverside, Gorman, Weyerhauser, Tolko, SB

Objectives: To inventory goat populations and monitor trends. Inventories will also ensure the AAH is sustainable

Tasks, Deliverables, Targets & Milestones:

Complete an accurate count of goats within each herd.

Target Dates

Inventory July/August
Write up fall

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 6**	**LRMP =5**	**RIC = 4**	**Timing =2**	**Total =20**

Rationale for Ranking:

Not mentioned in TSR, but info. will be required for future TSRs. This activity should resolve a major component of the information gap on a portion of the TSA and follow-up work is required. Maintaining goat populations is a goal of the OKSLRMP. Inventory is required to achieve LRMP goals and the objectives of the NTRS, 'Wildlife Inventory Strategy for Ungulates and Game Species.' This is a new project. Lack of completion will delay critical decisions regarding the AAH and access strategies however project maybe implemented over a 4 year period. RIC standards apply to all critical components.

Additional Benefits:

Inventory information can be used by other agencies that regulate CBR and mining.

Partnerships:

Comments: NTRS goats are vulnerable to timber management particularly road development and hunting. Existing and future access into goat habitat makes goat vulnerable to hunting and poaching.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$20,000	$0,000	$0,000	$20,000	$0,000	$40,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH

Title: Moose Inventory - Okanagan

Activity #: OWWH5

Description of the Activity: Inventory of 2.5 moose herds in the Okanagan TSA.

Status:

"New" OR Years in Progress?: New

Priority Comments: The priority species for inventory are goat, mule deer, elk, sheep, moose, and white tailed deer.

Location: Selected herds in Okanagan TSA. (West Side and E. Side Okanagan Lake, Upper Shuswap)

Management Unit: Okanagan TSA

Potential Lead Proponent: WLAP/Riverside, Tolko, Weyerhauser, Gormans, Small Business.

Objectives: To conduct a moose inventory on three key moose winter ranges. This data will be used to track trends in the Okanagan TSA for setting hunting seasons and setting annual allowable harvests.

Tasks, Deliverables, Targets & Milestones:
Stratify the habitat and conduct inventory.

Target Dates

Habitats to be stratified in the fall , inventory and write up to be conducted in the winter .

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 6**	**LRMP = 5**	**RIC = 4**	**Timing = 2**	**Total = 20**

Rationale for Ranking: Not mentioned in TSR, but info will be required for future TSRs. This activity should resolve a major component of the information gap. Maintenance of moose populations and hunting opportunities is specifically mentioned in the OKSLRMP. This activity is a requirement of the NTRS – Wildlife Inventory Strategy for Ungulates and Game Species. This is a new project. Lack of completion will delay critical decisions regarding the AAH and access strategies. RIC standards apply to all critical components

Additional Benefits:
Information can be used by other agencies that regulate recreation and mining.

Partnerships:

Comments: Demand for the species is high amongst hunters and First Nations. Consider priortity in 2003_04 management plan.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$0	$15,000	$20,000	$40,000	$0	$75,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Mule Deer Inventory - Okanagan**	**Activity #: OWWH6**

Description of the Activity: Inventory four wintering mule deer populations within the Okanagan TSA.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:** The priority species for inventory are goat, mule deer, elk, sheep, moose, and white tailed deer.

Location: Inventory four mule deer populations in the Okanagan TSA. Buyers Range, Coldstream, Antler Saddle, Penticton E.	**Management Unit**: Okanagan TSA

Potential Lead Proponent: MWLAP/Coldstream, (SB, Tolko, Riverside), Buyers (Riverside, Weyerhauser), Antler Saddle (Gorman), Penticton E.(Gorman, SB, Weyerhauser)

Objectives: To inventory mule deer populations and monitor trends to achieve hunter harvest objectives as defined in the Wildlife Inventory Strategy.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
To do a classified post harvest count of mule deer on four winter ranges.	December, 2002

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 6**	**LRMP =5**	**RIC = 4**	**Timing =2**	**Total = 20**

Rationale for Ranking: Not mentioned in TSR, but info will be required for future TSRs. Maintenance of Mule Deer populations is explicitly stated as a goal in the OKSLRMP and inventory work would support a component of this goal over a portion of the TSA. This activity is a requirement of the NTRS – Wildlife Inventory Strategy for Ungulates and Game Species. Lack of completion will delay critical decisions regarding the AAH and project may be implemented over 5 years. RIC standards apply to all critical components.

Additional Benefits: Information can be used by other agencies that regulate recreation and mining.

Partnerships:

Comments: Believe this may be duplicated in the IFPA submissions

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$12,000	$12,000	$12,000	$12,000	$12,000	$60,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH

Title: South Okanagan Sheep Inventory

Activity #: OWWH7

Description of the Activity: Inventory of California Bighorn Sheep populations in the South Okanagan.

Status: In progress

Priority Comments: The priority species for inventory are goat, mule deer, elk, sheep, moose and white tailed deer.

Location: Penticton Creek South

Management Unit: Okanagan TSA

Potential Lead Proponent: WLAP/ Weyerhauser, Small Business

Objectives: To inventory sheep populations in the South Okanagan and monitor trends to achieve harvest objectives as defined in the Wildlife Harvest Strategy.

Tasks, Deliverables, Targets & Milestones: Classified counts of rams, lamb, ewe ratio and an AAH.

Target Dates: December, 2002

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 6**	**LRMP = 5**	**RIC = 4**	**Timing = 3**	**Total =21**

Rationale for Ranking: Not mentioned in TSR, but info will be required for future TSRs. The maintenance of sheep populations is specifically mentioned in the OKSLRMP. Inventory information will be a component to meet this goal over a portion of the TSA. This project should resolve a major component of the information gap but follow up work is needed. This activity is a requirement of the NTRS – Wildlife Inventory Strategy for Ungulates and Game Species. Lack of completion will delay critical decisions. RIC standards apply to all critical components

Additional Benefits: Useful for local government planning purposes, provides some assurances that habitat guidelines and harvest strategies are working.

Partnerships:

Comments: Confirm if this is duplicated in IFPA Access / Sheep Kill Project

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$3,500	$3,500	$3,500	$3,500	$3,500	$17,500
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: White Tailed Deer Inventory**	**Activity #: OWWH8**

Description of the Activity: Inventory of selected White-tailed deer populations in the Okanagan TSA.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:** The priority species for inventory are goat, mule deer, elk, sheep, moose, and white tailed deer.

Location: 2 herds E. of Kelowna, 2 near Cherryville

Management Unit: Okanagan TSA

Potential Lead Proponent: Weyerhauser, Riverside (Cherryville), Tolko, Riverside (E. of Kelowna)

Objectives: To inventory white-tailed deer populations and monitor trends to achieve hunter harvest objectives as defined in the Wildlife Inventory Strategy.

Tasks, Deliverables, Targets & Milestones: To do a classified pre-season count of white-tailed deer on four winter ranges. The second year of the project look at setting up monitoring sites removed from cultivated fields.

Target Dates: Oct. 2002

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 6**	**LRMP = 3**	**RIC = 4**	**Timing = 2**	**Total = 18**

Rationale for Ranking: Not mentioned in TSR, but info may be required for future TSRs. Maintenance of hunting opportunities is an objective of the OSLRMP. Inventory will contribute to informed management decisions and improve the information gap on a portion of the TSA. This activity is a requirement of the NTRS – Wildlife Inventory Strategy for Ungulates and Game Species. Lack of completion will delay critical decisions regarding the AAH and project maybe implemented over a 5 year period. RIC standards apply to all critical components.

Additional Benefits:

Partnerships:

Comments: Confirm is this is duplicated in IFPA or other winter range studies

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$5,000	$10,000	$5,000	$5,000	$5,000	$30,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Template 3: Activities to Implement SSFM Strategies for Plan 2002/2003

SSFM Issue: #1.1	**Title: WWH Caribou**	**Activity OWWH9**

Description of the Activity: Monitoring Habitat Selection, Movements, and Population Characteristics of Mountain Caribou in Salmon Arm District.

Status:	**"New" OR Years in Progress?:** Year 2 of 5	**Priority Comments?:** High priority for OK LRMP

Location: Okanagan TSA **Management Unit**: Okanagan TSA

Potential Lead Proponent: All Licensees, IFPA, LP / Federated Coop leads in 2001/02

Objectives: Map currently used seasonal distribution of caribou and potential caribou habitat. Determine movements and population size. Determine caribou mortality rates and causes. Determine seasonal habitat use patterns, particularly relative use of ICH and ESSF. Link monitoring to ongoing research in the Columbia and Clearwater study areas.

CARIBOU Project Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Continuation of LRMP Caribou RMZ area study	March 31st, 2003

Benefits & Ranking Criteria:
TSR 7/10 LRMP 10/10 NTR 9/10 RIC 3/5 Timing 5/5 = **TOTAL 34**

Benefits & Ranking Criteria:
Timber Supply review: Stratification of Caribou habitat areas and management regimes have a distinct input to the TSR.
Non-Timber resource Strategies: Interactions of forestry practices within caribou ranges have a significant impact on both resources.
LRMP: Operational research into Caribou habitat and use patterns was identified as a high priority in the LRMP.
Other:

Rational for Ranking: An identified priority in the Okanagan Shuwswap LRMP.

Partnerships: Ministry of Forests, Okanagan TSA MOF Small Business Forest Enterprise Program, Ministry of Water, Land & Air, Bell Pole Company Ltd., Gorman Bros. Lumber Ltd., Federated Co-operatives Limited, LP Engineered Wood Products Ltd., Selkirk Timber Company, Tolko Industries Ltd., Weyerhaeuser Company Ltd., Okanagan Innovative Forestry Society IFPA.

Comments:

Previous Investment		**Recommended Investments – Photos**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	Projected **2004/05**	Projected **2005/06**	**Projected 2006/07**	**5 Year Totals**
$75,000	**Costs ($$)**	$100,000	$100,000	$100,000	$100,000	$100,000	$500,000
report	**Units**	Report	report	report	report	Report	Ha
1	**Goals**	1	1	1	1	1	

Template 3: Activities to Implement SSFM Strategies for Plan 2002/2003

SSFM Issue: #1.1 | **Title: WWH Deer** | **Activity: OWWH10**

Description of the Activity: Evaluation of relationships between forage and cover

Status:

"New" OR Years in Progress?: Year 2 of 5

Priority Comments?: High priority for OK LRMP

Location: Okanagan TSA

Management Unit: Okanagan TSA

Potential Lead Proponent: All Licensees, IFPA, Riverside lead in 2001/02

Objectives: To evaluate forestry management practices effects on forage and cover in moderate and shallow deer winter ranges.

DEER Project Tasks, Deliverables, Targets & Milestones:

Continuation of TSA wide deer forage and cover study

Target Dates: March 31st, 2003

Benefits & Ranking Criteria:

TSR 7/10 LRMP 10/10 NTR 7/10 RIC 3/5 Timing 4/5 = **TOTAL 31**

Benefits & Ranking Criteria:

Timber Supply review: Stratification of Deer winter ranges and management regimes have a distinct input to the TSR.

Non-Timber resource Strategies: Interactions of forestry practices within deer winter ranges have a significant impact on both resources. A study of forage and cover is being conducted to mitigate impacts on both resources.

LRMP: Operational research into deer winter ranges was identified as a priority in the LRMP.

Other:

Rational for Ranking: An identified priority in the Okanagan Shuwswap LRMP.

Partnerships: Ministry of Forests, Okanagan TSA MOF Small Business Forest Enterprise Program, Ministry of Water, Land & Air, Bell Pole Company Ltd., Gorman Bros. Lumber Ltd., Federated Co-operatives Limited, LP Engineered Wood Products Ltd., Selkirk Timber Company, Tolko Industries Ltd., Weyerhaeuser Company Ltd., Okanagan Innovative Forestry Society IFPA.

Comments:

Previous Investment		**Recommended Investments – Photos**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	Projected **2004/05**	Projected **2005/06**	**Projected 2006/07**	**5 Year Totals**
$100,000	**Costs ($$)**	$232,000	$220,000	$200,000	$50,000	$0,000	$702,000
Report	**Units**	report	report	report	ha	Ha	Ha
1	**Goals**	1	1	1			

Template 3: Activities to Implement SSFM Strategies for Plan 2002/2003

SSFM Issue: #1.1 | **Title: WWH Marten** | **Activity:** 1.16 **OWWH11**

Description of the Activity: Evaluation of timber harvesting practices which may enhance marten habitat.

Status: | "New" OR Years in Progress?: Year 2 of 3 | Priority Comments?: High priority for OK LRMP

Location: Okanagan TSA | **Management Unit**: Okanagan TSA

Potential Lead Proponent: All Licensees, IFPA, Tolko Industries Ltd. lead in 2001/02

Objectives: To evaluate forestry management practices which may reduce the impact of timber harvesting on marten habitat and population.

DEER Project Tasks, Deliverables, Targets & Milestones: Continuation of TSA wide marten study

Target Dates: March 31st, 2003

Benefits & Ranking Criteria:
TSR 7/10 LRMP 10/10 NTR 7/10 RIC 3/5 Timing 4/5 = **TOTAL 31**

Benefits & Ranking Criteria:

Timber Supply review: Maintaining "old growth" attributes for marten habitat has a restrictive impact on the TSR.

Non-Timber resource Strategies: Current forestry practices have been identified as a possible cause of declining marten harvest in some landscape units. A study of practices from other jurisdictions, which may reduce that impact, has been completed, and it is now desirable to determine if such strategies can be effective here.

LRMP: Operational research into marten habitat attributes was identified as a priority in the LRMP.

Other:

Rational for Ranking: An identified priority in the Okanagan Shuwswap LRMP.

Partnerships: Ministry of Forests, Okanagan TSA MOF Small Business Forest Enterprise Program, Ministry of Water, Land & Air, Bell Pole Company Ltd., Gorman Bros. Lumber Ltd., Federated Co-operatives Limited, LP Engineered Wood Products Ltd., Selkirk Timber Company, Tolko Industries Ltd., Weyerhaeuser Company Ltd., Okanagan Innovative Forestry Society IFPA.

Comments:

Previous Investment		**Recommended Investments – Photos**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	Projected 2004/05	Projected 2005/06	**Projected 2006/07**	**5 Year Totals**
$50 000	**Costs ($$)**	$65 000	$50 000	$0	$0	$0	$115 000
report	**Units**	report	report				Ha
1	**Goals**	1	1				

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title:** Goshawk Nest Monitoring	**Activity #:** OWWH12

Description of the Activity: Monitoring of known and reported goshawk nest sites. The monitoring will help to determine the success of various harvesting prescriptions that have been applied to areas with nesting goshawks. It will monitor whether nest sites are reused and nesting success. The project will also solicit reports of new sightings by providing information on goshawk identification to people working in the field.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:** Information is required to determine success or impact of harvesting practices on goshawks.

Location: Through out Okanagan TSA	**Management Unit:** Okanagan TSA

Potential Lead Proponent: MWLAP

Objectives: To collect long term nesting data. To identify harvesting practices that are successful in maintaining the suitability of nesting habitat. To collect information on new sightings.

Tasks, Deliverables, Targets & Milestones: Annual report **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 2	NTRS = 6	LRMP = 5	RIC = 4	Timing = 3	Total = 21

Rationale for Ranking: This activity will resolve a major component of a knowledge gap for the TSA that may be a concern for future TSRs. Maintaining populations and habitat of regionally important species is an objective of the OKSLRMP but follow-up work is needed. Goshawk is designated as 'Identified Wildlife' under the Identified Wildlife Management Strategy. This project will contribute to the implementation of this strategy. Lack of completion may delay critical decisions. RIC standards apply to critical components.

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$7,000	$7,000	$7,000	$7,000	$7,000	$35,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Red and Blue Listed plant inventory**	**Activity #: OWWH13**

Description of the Activity: Inventory of high potential sites for red and blue listed plants

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:** Very little inventory has been done for many of the plant species. Inventory will focus on red listed plants

Location: Through out Penticton forest district	**Management Unit**: Okanagan TSA

Potential Lead Proponent: MWLAP

Objectives: To identify location and distribution of red and blue listed plant species with in the district.

Tasks, Deliverables, Targets & Milestones: Annual report, database and maps. **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 2	**NTRS = 5**	**LRMP = 4**	**RIC = 4**	**Timing = 0**	**Total = 15**

Rationale for Ranking: This activity will improve a knowledge gap on a portion of the TSA that may be a concern for future TSRs. Maintaining populations and habitat of regionally important species is an objective of the OKSLRMP and data collection on these areas is an initial step with further follow-up required. There are a number of plant communities in the South Okanagan that are designated as 'Identified Wildlife' under the Identified Wildlife Management Strategy. This project will contribute to the implementation of this strategy. Lack of completion is preventing adequate management and project should start now. Specifically mentioned as a need in the OKSLRMP.

Additional Benefits:

Partnerships:

Comments: Request to consider in light of PEM and VRI. Is the timing of this suitable? Will components need to be revisited? Consider priority in 2003_04 Management Plan

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$0	$20,000	$20,000	$20,000	$0,000	$60,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Template 3
Activities to Implement SSFM Strategies

SSFM Issue: **WWH**	**Title: Mule Deer Winter Range Inventory**	**Activity #: OWWH14**

Description of the Activity: Mule Deer Winter Range Inventory

Status:	**"New" OR Years in Progress?:** 3	**Priority Comments?:** Need for habitat information in managing Mule Deer, link to OK LRMP

Location: Weyerhaeuser – Lumby operating area

Management Unit: Okanagan TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives:.Identify Mule Deer Winter Range and Map out habitat use types (forage vs shelter)

Tasks, Deliverables, Targets & Milestones:

Target Dates: 2004

Benefits & Ranking Criteria:

TSR = 5	**NTRS = 6**	**LRMP = 6**	**RIC = 3**	**Timing = 5**	**Total =25**

Benefits & Ranking Criteria:

Timber Supply Review: Not mentioned in the TSR by may be required in future TSRS. Resolves a major component of a gap or need in the TSA and compliments other high priority projects.

Non-Timber Resource Strategies: Resolves a component of an information gap on part of the TSA

LRMP: A noted concern in LRMP.

Other:

Rational for Ranking:

TSR –local consideration may be made to volume adjustments in maintaining Mule Deer Winter Range habitat

NTRS – High interest area regarding Mule Deer Habitat Values

LRMP – Information conforms to the LRMP in filling information gaps

Additional Benefits: Complimentary to other Mule Deer Winter Range Studies on going in the TSA to address High, Medium and Low Snow pack conditions.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$40,000	**Costs ($$)**	$40,000	$40,000	$0,000	$0,000	$0,000	$80,000
1	**Units**	1	1	ha	ha	ha	ha
report	**Goals**	report	report	0	0	0	0

Template 3
Activities to Implement SSFM Strategies

SSFM Issue: **WWH**	**Title: R&B listed species inventories/studies**	**Activity #: OWWH15**

Description of the Activity: Inventories on Red and Blue listed species

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:** Need for habitat information

Location: Weyerhaeuser – Lumby operating area	**Management Unit:** Okanagan TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives:.R&B listed species

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** 2007

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 4**	**LRMP = 3**	**RIC = 3**	**Timing = 3**	**Total =15**

Benefits & Ranking Criteria:

Timber Supply Review: Improves gap or needed in formation on part of the TSA and follow-up work is still needed

Non-Timber Resource Strategies: Resolves a major component of a gap or need for TSA but follow up work still needed.

LRMP: Resolves a major component of a gap or need for TSA but follow up work still needed.

Other:

Rational for Ranking:

TSR –local consideration may be made to volume adjustments red and blues listed wildlife species

NTRS – High interest area regarding R&B listed wildlife species

LRMP – Information may be used in wildlife management

Partnerships:

Comments: Consider timing of this project in light of VRI and PEM mapping initiatives.

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$40,000	**Costs ($$)**	$40,000	$40,000	$80,000	$80,000	$80,000	$320,000
1	**Units**	1	1	1	1	1	5
report	**Goals**	report	report	report	report	report	reports

Okanagan TSA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WY

Title: Water Supply – Ok-Shus

Activity #: OWY1

Description of the Activity:
Conduct operational trials on a statistically significant number of small, high-elevation (snowpack dominated) watersheds in an effort to determine if small, protected openings can optimize water supply in the dry Southern Interior. Approximately sixteen (16) stations are required; eight as controls ("current forest management"), and eight watersheds where "modified forest management" will be conducted. These small, gauged watersheds should be "nested" within larger gauged watersheds for scaling of hydrologic response.

Status: New

Priority Comments: Priority areas to be determined during process.

Location: Small sub-basins (jointly selected) within the following candidate watersheds: **Trout, Peachland, Mission, Trepanier, potentially others**

Management Unit: Okanagan TSA

Potential Lead Proponent: Ministry of Water, Land and Air Protection / Licensees TBA
Ministry of Sustainable Resource Development

Objectives: To determine if modified forest-management can be used to optimize water supply in dry, Interior watersheds.

Tasks, Deliverables, Targets & Milestones: Selection of small sub-watersheds within TSA. Installation of Water Survey of Canada gauges. Collect data for three to five years.

Target Dates: Installation of gauges in Year 1. Data collection Years 2 to 5.

Benefits & Ranking Criteria: (from plan drivers)

TSR = 5	NTRS = 7	**LRMP = 6**	**RIC = 3**	**Timing = 2**	**Total = 23**

Rationale for Ranking: Provincial Forest is the primary "water production area" in most watersheds, so there is a significant tie to the Timber Supply Review process. A better understanding of the relationships between forest practices and water supply should allow for more accurate, specific and realistic forest cover constraints to be modelled than those currently used in the TSR process (for both community watersheds and the remainder of the landbase). All of the SIR LRMP processes (Kamloops LRMP, the Okanagan-Shuswap LRMP, and the Lillooet LRMP *-draft*) have all identified potential water shortage issues as priorities. WSC standards apply to all data acquisition.

Additional Benefits: Data collected can also be used for research purposes.

Partnerships: Recommend to explore partnerships with Resource Plan proponents.

Comments: The above identified drainages are under active Resource Plans with significant hydrologic focus. Further investment in water related issues must be initiated with all possible efficiencies and partnerships explored to take advantage of station installations and data collection.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs**	$120,000	$100,000	$100,000	$100,000	$100,000	$520,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

A1.6 Interfor IFPA

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH

Title: Co-management

Activity #: IICH1

Description of the Activity: Increase First Nations participation in long term planning

Status:

"New" OR Years in Progress?: 2

Priority Comments:

Location: Hiuihill, Gold, Sinmax, Momich

Management Unit:

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives:

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits:

Partnerships: Adams Lake Indian Band

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$50,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Coho Fish Fence**	**Activity #: IIFFH1**
Description of the Activity: Install enumeration fence for Coho		

Status:	**"New" OR Years in Progress?:** 2	**Priority Comments:**

Location: Sinmax	**Management Unit:** IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives:

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits:

Partnerships: Adams Lake Indian Band

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$30,000	**Costs ($$)**	$30,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FH	**Title: Overall Strategy**	**Activity #: IIFH1**

Description of the Activity: Develop strategy for Forest Health

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives: Develop framework for future forest health studies

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: Guides future work and important for certification

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$15,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FH	**Title: Gall Rust Study**	**Activity #: IIFH2**

Description of the Activity: Survey of older plantations

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives: Determine incidence of gall rust on older plantations

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking: Problems observed during recent audit. Need to know the extent of the problem

Additional Benefits:

Partnerships:

Comments: Note: This activity seems like an operational requirement. Is it eligible for FRBC funding??

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$15,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FH	**Title: Operational Root Rot Study**	**Activity #: IIFH3**

Description of the Activity: Evaluate root rot management practices in current operations

Status:	**"New" OR Years in Progress?:** New	**Priority Comments:**

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives: Determine effectiveness of current root rot treatments on issues such as G&Y, site deg, etc.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: Future costs and G&Y implications

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$30,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FH	**Title: Bark Beetle risk Assessment**	**Activity #: IIFH4**

Description of the Activity: Evaluate future bark beetle risks

Status:	"New" OR Years in Progress?: New	**Priority Comments:**

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives: Prevent future epidemic outbreaks of bark beetle

Tasks, Deliverables, Targets & Milestones: Target Dates:

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: timber supply

Partnerships:

Comments: Note: In most of the FRBC eligibility criteria, activities pertaining to Bark Beetles is not eligible. Is this an exception?

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$20,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: ESSF Site Index**	**Activity #: IIGY1**

Description of the Activity: Evaluate high elevation spruce site indices

Status:	"New" OR Years in Progress?: 3	**Priority Comments:**

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives: Better Spruce site index estimates

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: timber supply

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$80,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: Rust resistant white pine**	**Activity #: IIGY2**

Description of the Activity: Long term growth evaluation of white pine from Idaho

Status:	"New" OR Years in Progress?: New	**Priority Comments:**

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives: Determine if white pine can be re-introduced to the Adams Lake area

Tasks, Deliverables, Targets & Milestones: Target Dates:

Benefits & Ranking Criteria: (from plan drivers)

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Rationale for Ranking:

Additional Benefits: biodiversity

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$15,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY **Title: Stand Level Silviculture** **Activity #: IIGY3**

Description of the Activity: Continuation of Ian Cameron's work in the ICH

Status: **"New" OR Years in Progress?:** 2 **Priority Comments:**

Location: Adams Lake **Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives: Eventually develop appropriate silviculture regimes in the ICH

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = **NTRS =** **LRMP =** **RIC =** **Timing =** **Total =**

Rationale for Ranking:

Additional Benefits: biodiversity

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$35000	**Costs ($$)**	$20,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: ICH Modeling**	**Activity #: IIGY4**

Description of the Activity: Continuation of Ian Cameron's work in the ICH to develop appropriate MSYT's

Status:	"New" OR Years in Progress?: 2	**Priority Comments:**

Location: Adams Lake

Management Unit: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives: Improve upon the TASS and TIPSY estimates for managed stands

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: biodiversity

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$40000	**Costs (SS)**	$27,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: OAF**	**Activity #: IIGY5**

Description of the Activity: Review OAF estimates

Status:	**"New" OR Years in Progress?:** 1	**Priority Comments:**

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives Improve current TSR estimates

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0	Costs ($$)	$15,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	Units	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: PSP Strategy & Review**	**Activity #: IIGY6**

Description of the Activity: Review PSP needs for Adams Lake

Status:	"New" OR Years in Progress?: 1	Priority Comments:

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives Long term monitoring

Tasks, Deliverables, Targets & Milestones: Target Dates:

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$20,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY | **Title:** **ICH Demo Site** | **Activity #:** **IIGY7**

Description of the Activity: Promote awareness of ICH research in the Adams Lake area

Status: | "New" OR Years in Progress?: 2 | **Priority Comments:**

Location: Adams Lake | **Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = | **NTRS =** | **LRMP =** | **RIC =** | **Timing =** | **Total =**

Rationale for Ranking:

Additional Benefits: biodiversity

Partnerships:

Comments: NOTE: This project has been proposed for at least 4 years with little happening. Does it have anything to do with the IFPA objectives?

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$40000	**Costs ($$)**	$40,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP | **Title: Update Forestry Plan** | **Activity #: IIRP1**

Description of the Activity: Management plan update

Status: | **"New" OR Years in Progress?:** 1 | **Priority Comments:**

Location: Adams Lake | **Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives Update five year old plan

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments: NOTE: This activity seems like an operational requirement. Is it eligible for FRBC funding??

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$50,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Carbon Sequestering**	**Activity #: IIRP2**

Description of the Activity: Study to evaluate forest management effects on carbon

Status:	**"New" OR Years in Progress?:** new	**Priority Comments:**

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives meet global information gaps

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: certification

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$15,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Coarse Woody Debris**	**Activity #: IIRP3**

Description of the Activity: Evaluation of current harvesting practices on coarse woody debris

Status:	"New" OR Years in Progress?: new	**Priority Comments:**

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives Determine if current methods are appropriate

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: certification

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$15,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Timber Berth Rehab**	**Activity #: IIRP4**

Description of the Activity: Stand conversion in old timber berth

Status:	**"New" OR Years in Progress?:** 4	**Priority Comments:**

Location: Adams Lake Bruhn ridge	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives Convert silviculture slums into productive forest

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$25000	**Costs ($$)**	$40,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Deciduous Strategy**	**Activity #: IIRP5**

Description of the Activity: Derive economic value from deciduous leading stands

Status:	**"New" OR Years in Progress?:** 1	**Priority Comments:**

Location: Adams Lake	**Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives Economic value but manage long term for deciduous consistent with LRMP. Develop silviculture regimes for deciduous ground

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: Munson Equipment and ALIB have sawmills that can process hardwood.

Partnerships: Adams Lake Indian Band

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$5000	**Costs ($$)**	$20,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP **Title:** **New Watershed Indicators** **Activity #:** **IIRP6**

Description of the Activity:

Status: "New" OR Years in Progress?: 2 **Priority Comments:**

Location: Adams Lake **Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives Improve decision making in watersheds regarding future development

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR = **NTRS =** **LRMP =** **RIC =** **Timing =** **Total =**

Rationale for Ranking:

Additional Benefits: overall watershed health based on objective information.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$50000	**Costs ($S)**	$30,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Silviculture Regimes**	**Activity #: IIRP7**

Description of the Activity:

Status:	"New" OR Years in Progress?: 2	**Priority Comments:**

Location: Adams Lake

Management Unit: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives Develop appropriate silviculture regimes in the ICH

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: Biodiversity

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$10000	**Costs ($$)**	$25,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TEM	**Title: Rare Plants and Ecosystems**	**Activity #: IITEM1**

Description of the Activity:

Status: "New" OR Years in Progress?: 1 | **Priority Comments:**

Location: Adams Lake | **Management Unit**: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives Better understand status of rare plants and ecosystems in the Adams Lake area

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: Biodiversity and certification

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	$75,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VRI	**Title: Upgrade VRI to Monitoring**	**Activity #: IIVRI1**

Description of the Activity:

Status:	"New" OR Years in Progress?: new	Priority Comments:

Location: Adams Lake

Management Unit: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives long term evaluation of inventories

Tasks, Deliverables, Targets & Milestones: Target Dates:

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: certification

Partnerships:

Comments: Based on monitoring strategy completed in 2001

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	$100,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: WQ	**Title:** **WRP Effectiveness**	**Activity #:** **IIWQ1**

Description of the Activity:

Status:	"New" OR Years in Progress?: new	**Priority Comments:**

Location: Adams Lake

Management Unit: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives to assess the effectiveness of WRP

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: certification

Partnerships:

Comments: Based on monitoring strategy completed in 2001

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	$60,000	$0,000	$0,000	$0,000	$0,000	$60,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

Interfor IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: OGMA and WTP Evaluation**	**Activity #: IIWWH1**

Description of the Activity: study of current management techniques

Status:	"New" OR Years in Progress?: new	**Priority Comments:**

Location: Adams Lake

Management Unit: IFPA

Potential Lead Proponent: Adams Lake Lumber IFPA

Objectives long term evaluation of effectiveness of these methods for wildlife and biodiversity

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria: (from plan drivers)

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Rationale for Ranking:

Additional Benefits: certification

Partnerships:

Comments: Based on monitoring strategy completed in 2001

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	$40,000	$0,000	$0,000	$0,000	$0,000	$0,000
ha	**Units**	ha	ha	ha	ha	ha	ha
	Goals						

A1.7 Merritt IFPA

Merritt IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: CH

Title: **Develop joint co-management plan for FDP, referrals, etc**

Activity #: MICH1

Description of the Activity: The NSIFS believes that significant reductions in planning delays and costs can be achieved if a co-management process for FDP process is developed that will be better reflect the NSIFS vision for co-management.

Status:

"New" OR Years in Progress?:

Priority Comments?:

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to review the current FDP and undertake a problem analysis of the needs of the Licencees and First Nations in improving the process.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:

Timber Supply Review:

Non-Timber Resource Strategies:

LRMP:

Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$20,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: Digitize First Nations Data**	**Activity #:** MICH2

Description of the Activity: The NSIFS First Nations partners require funding to continue to load First Nations resource values into a GIS.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this project is to take First Nations information off the shelf and put it in a format that is more suitable for resource analysis.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$55,000	**Costs ($$)**	$50,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title:** Identification of locally significant plants	**Activity #:** MICH3

Description of the Activity: The NSIFS requires a list of locally significant plants for biodiversity analysis.

Status: "New" OR Years in Progress?: Priority Comments?:

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to use a workshop environment to obtain information about locally significant plants. A number of issues relating to FN data and data use will have to be resolved.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$40,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: Support co-management proposals from Bands**	**Activity #:** MICH4

Description of the Activity: The NSIFS has a large commitment to developing co-management plans with the First Nations partners. This funding supports a wide range of specific projects.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective of co-management planning is to incorporate economic development with an integration of environmental, social and cultural values, shared decision making and equitable sharing of benefits.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$325,000	**Costs ($$)**	$360,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title:** **Fisheries Integration Programs**	**Activity #:** **MIFFH1**

Description of the Activity: The NSIFS requires co-ordination between the NSIFS, Licensee and agency efforts in fisheries and stream classification.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this funding is to ensure co-ordination of efforts and to avoid costly duplications of effort.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$15,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Field Truth Stream Class Model**	**Activity #:** MIFFH2

Description of the Activity: The NSIFS has undertaken stream classification, which requires field truthing.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to field truth a portion of the NSIFS stream classification efforts to provide an audit of the current classification model.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$100,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Anadromous Fish**	**Activity #: MIFFH3**

Description of the Activity: The NSIFS should support anadromous fish management programs.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this project is to work with federal and provincial agencies to address critical issues for anadromous species (e.g. low water flow, temperature sensitive streams) and identify links/options for forest management.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$25,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Rare Fish Habitat**	**Activity #: MIFFH4**

Description of the Activity: The NSIFS requires better information on rare fish species distribution and seasonal habitat requirements.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this project is to identify sensitive species habitat areas and develop operational prescriptions, which preserve and enhance rare and sensitive fish species.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$65,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FH
Title: Forest Health Plan
Activity #: MIFH1

Description of the Activity: NSIFS requires a Forest Health Plan to integrate with MOF programs and to outline options for meeting NSIFS forest management strategies.

Status:
"New" OR Years in Progress?:
Priority Comments?:

Location:
Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: To complete is to complete a Forest Health Plan for the Merritt TSA, giving priority to developing options to reduce the long-term susceptibility to mountain pine beetle.

Tasks, Deliverables, Targets & Milestones:
Target Dates:

Benefits & Ranking Criteria:

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0,000	Costs ($$)	$55,000	$	$	$	$	$
ha	Units	Ha	ha	ha	ha	ha	ha
0	Goals	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title:** Douglas-fir Yield Curves	**Activity #:** MIGY1

Description of the Activity: The NSIFS requires new stand level D-fir yield curves to complete the Douglas-fir Protocols Project.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to develop new Douglas-fir yield curves to allow better prediction of Douglas-fir stands under a variety of management regimes.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$15,000	**Costs ($$)**	$45,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY

Title: High Elevation Problem Analysis

Activity #: MIGY2

Description of the Activity: The NSIFS requires a problem analysis and review of high elevation silviculture performance as it relates to growth & yield predictions.

Status:

"New" OR Years in Progress?:

Priority Comments?:

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to collect information to better quantify the growth & yield input parameters for MSYTs for high elevation forests.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:

Timber Supply Review:

Non-Timber Resource Strategies:

LRMP:

Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$000	**Costs ($$)**	$65,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: Growth & Yield Documentation of Old Growth Attributes**	**Activity #: MIGY3**

Description of the Activity: The NSIFS requires better documentation of old growth attributes in order that information is provided to decision-makers.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to quantify a number of the key attributes of old growth stands, in order that future management regimes can consider the provision of these key attributes.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$105,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: IT	**Title:** Allocating Non-timber Resources	**Activity #:** MIIT1

Description of the Activity: The NSIFS requires the use of an optimization model (such as SYMBOL) to help balance non-timber resource allocations.

Status: **"New" OR Years in Progress?:** **Priority Comments?:**

Location: **Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to use new computer technology to help improve the allocation of timber and non-timber resources over time.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$75,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: IT

Title: Biodiversity Framework Modelling

Activity #: MIIT2

Description of the Activity: The NSIFS requires exploratory work examining alternative approaches to developing fine filter measures of biodiversity.

Status:

"New" OR Years in Progress?:

Priority Comments?:

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to ensure that a biodiversity fine filter approach can be incorporated into the current NSIFS course filter approach.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =
NTRS =
LRMP =
RIC =
Timing =
Total =

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$40,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: IT	**Title: Application of Douglas-fir Protocols to TSA**	**Activity #:** MIIT3

Description of the Activity: The NSIFS requires the application of the Douglas-fir protocols planning process to the Douglas-fir stands in the TSA to help change how Douglas-fir stands are managed.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective of the NSIFS is to change the way in which Douglas-fir stands are managed in the TSA. The Douglas-fir Protocols planning will help do this, however, we have been waiting for the PEM and the sub-unit inventory.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$65,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: IT	**Title:** Central Database Management	**Activity #:** MIIT4

Description of the Activity: The NSIFS maintains a central data set (which needs to expand) for all NSIFS collected information. To date the NSIFS has not spend any funding on system development and needs to expand the provision of services to NSIFS partners.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to maintain a single dataset for all NSIFS projects and to integrate with existing agency and Licensee programs and to serve this information to the NSIFS partners.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$60,000	**Costs ($$)**	$90,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title:** Silviculture Program Analysis	**Activity #:** MIRP1

Description of the Activity: The NSIFS requires a silviculture analysis (using the new growth & yield and timber supply data) to develop a long-term silviculture strategy for the TSA.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to undertake a MOF Type 2 Silviculture Analysis using the new MSYTs and other information from the NSIFS innovative timber supply composite scenario.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$000	**Costs ($$)**	$75,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Economic Analysis of Current Silviculture Regimes**	**Activity #: MIRP2**

Description of the Activity: The NSIFS requires an analysis of current silviculture regimes.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to use analytical tools to evaluate current silviculture regimes as to their economic effectiveness, risks and product expectations.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$000	**Costs ($$)**	$40,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Comparison of Spatial Model & Layout**	**Activity #: MIRP3**

Description of the Activity: The NSIFS needs to ensure that the inputs to the spatial blocking models are providing suitable estimates of timber recovery.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to ensure that the spatial timber supply assumptions are viable. This will be done by undertaking a comparison between FDPs, a small area total chance plan, and the current blocking model.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$20,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title:** Socio-Economic Study	**Activity #:** MIRP4

Description of the Activity: The NSIFS needs to have a better understanding of the socio-economic impacts of its programs.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to utilize the TSR2 information and explore the impacts of an expanded number of timber supply scenarios and potential harvest schedules.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:

Timber Supply Review:

Non-Timber Resource Strategies:

LRMP:

Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$25,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Douglas-fir Alternative Management Trial**	**Activity #: MIRP5**

Description of the Activity: The NSIFS wishes to undertake a large-scale trial of alternative approaches to managing Douglas-fir forests (somewhat like Skull Mountain). This project would start the preliminary planning.

Status:	"New" OR Years in Progress?:	Priority Comments?:

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to build upon innovative deer management at Skull Mtn. and combine it with the NSIFS D-fir Protocols approaches in a large trial area.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$45,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title:** Support LRMP Process	**Activity #:** MIRP6

Description of the Activity: The NSIFS expects that a LRMP process will be in-place within the next couple of years in the Merritt TSA.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this funding is to ensure that NSIFS vision, objectives and data is made available to a future LRMP process.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$25,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Re-define PFTs by the use of PEM**	**Activity #:** MIRP7

Description of the Activity: The NSIFS requires further examination of the problem forest type definition to help define the long term landbase.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to use the ecologically mapping from PEM to re-visit the TSR 2 PFT assumptions, combined with the 1996-98 Douglas-fir sampling to better define the PFT landbase.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:

Timber Supply Review:

Non-Timber Resource Strategies:

LRMP:

Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$20,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Operating area analysis and consolidation for new tenure**	**Activity #:** MIRP8

Description of the Activity: The NSIFS is committed to supporting the issuance of a 6th IFPA to First Nations partners.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The issuance of a 6th IFPA will require re-evaluation of traditional operating areas.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$30,000	**Costs ($$)**	$25,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Incorporation of NSIFS data into Landscape Unit Planning Initiatives**	**Activity #:** MIRP9

Description of the Activity: The NSIFS has offered to provide the MOF & MWLAP NSIFS data and analysis tools for use in landscape planning analysis.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this funding is to provide NSIFS data and analysis tools for use in the landscape planning exercise.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$90,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: **TEM**	**Title: Rare or Sensitive Plant Association Sites**	**Activity #: MITEM1**

Description of the Activity: The NSIFS requires preliminary estimates of rare or sensitive plant association mapping from the PEM maps.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to determine if rare or sensitive plant associations can be delineated from analysis of the PEM mapping.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$15,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TEM	**Title: PEM1 Documentation Report**	**Activity #: MITEM2**

Description of the Activity: The NSIFS requires the completion of the final PEM1 documentation report.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to complete this report (for which there was no funding in 2001) to provide documentation and recommendations for the use of PEM1 results.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$20,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TEM	**Title: PEM1 Map Verification Phase 2**	**Activity #:** MITEM3

Description of the Activity: The NSIFS a second field season of PEM1 mapping verification.

Status:	"New" OR Years in Progress?:	Priority Comments?:

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this work is to ensure that the PEM1 mapping has been field verified.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0	Costs ($$)	$80,000	$	$	$	$	$
ha	Units	Ha	ha	ha	ha	ha	ha
0	Goals	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VA	**Title:** VQO Volume Recovery Trial	**Activity #:** MIVA1

Description of the Activity: The NSIFS requires a review of the MOF assumptions of how much wood can be removed from a specific VQO polygon and still meet the VQO objective.

Status:	"New" OR Years in Progress?:	Priority Comments?:

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this funding is to establish a trial to determine if the current timber supply modeling constraints are too constraining and how much more wood might be recovered from some VQO polygons.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0	Costs ($$)	$30,000	$	$	$	$	$
ha	Units	Ha	ha	ha	ha	ha	ha
0	Goals	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: **VRI**	**Title: Implement NSIFS Monitoring Program**	**Activity #:** MIVRI1

Description of the Activity: The NSIFS requires the establishment of its monitoring program.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to begin the establishment of NSIFS monitoring program, building on the existing VRI plot locations.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$80,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VRI	**Title:** Quantify Douglas-fir Reserves	**Activity #:** MIVRI2

Description of the Activity: The NSIFS needs to better understand the amount of Douglas-fir reserves currently being left on site, and develop options on how it should be modeled.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to quantify the amount of Douglas-fir reserves, and develop better growth & yield modeling procedures.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0	Costs ($$)	$20,000	$	$	$	$	$
ha	Units	Ha	ha	ha	ha	ha	ha
0	Goals	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VRI	**Title: Fdi sub-unit inventory (add Protocols attributes)**	**Activity #:** MIVRI3

Description of the Activity: The NSIFS has identified the need for a sub-unit Douglas-fir inventory to allow better management planning in the IDF.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this project is to undertake finer stratification and new classification (with additional attributes) to help provide the basis for alternative approaches to managing Douglas-fir stands.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$150,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: **VRI**	**Title: Complete NVAF plot establishment**	**Activity #: MIVRI4**

Description of the Activity: The NSIFS requires the completion of the NVAF program.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this program is to complete the NVAF plots, analysis of the data and adjustment of the inventory.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$105,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: **WQ**	**Title: Hydrological Studies**	**Activity #:** MIWQ1

Description of the Activity: The NSIFS requires better overview assessment indicators of watershed status and sensitivity.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this project is to assess watershed health and fish habitat status using all newly collected ecological, soils and terrain data collected for the Merritt TSA. Field verification will be required.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$80,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH

Title: Wildlife themes for resource value map for TSA

Activity #: MIWWH1

Description of the Activity: The NSIFS requires an overall resource value map to integrate the wildlife and biodiversity information collected to date.

Status:

"New" OR Years in Progress?:

Priority Comments?:

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to collate and integrate all of the resource value information that has been collected to date and have meetings with various agencies to help define management objectives for these species.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$50,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Wildlife habitat species model field testing**	**Activity #:** MIWWH2

Description of the Activity: The NSIFS requires further field verification of wildlife models to obtain 15% RIC standard sampling.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to ensure the suitability for use of the key wildlife models by further field verification.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$100,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: **WWH**	**Title:** **Completion of wildlife models**	**Activity #:** MIWWH3

Description of the Activity: The NSIFS requires a further 6 wildlife models built to meet the environment plan needs.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of developing wildlife models is to help define a variety of resource values using the PEM maps, and to build an integrated environmental plan.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$95,000	**Costs ($$)**	$40,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Wildlife demonstration areas**	**Activity #:** MIWWH4

Description of the Activity: The NSIFS needs areas by which wildlife management options can be explored.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objectives of these demonstration areas are to show how wildlife habitat attributes can be operationally implemented.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$60,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: **WWH**	**Title: Ungulate Winter Range Monitoring**	**Activity #: MIWWH5**

Description of the Activity: The NSIFS must monitor and field truth the ungulate winter range areas designated by MWLAP and confirm their occupancy.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this project is to confirm that the areas reserved/managed for wildlife habitat are supporting deer, moose, elk, sheep and goat populations as expected

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$120,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Identified wildlife management monitoring**	**Activity #:** MIWWH6

Description of the Activity: The NSIFS must monitor the effectiveness and success of habitat management areas identified under the IWM Strategy

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this project is to catalogue and monitor representative sites to ensure that habitat is maintained and that wildlife continue to occupy the sites.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0	Costs ($$)	$45,000	$	$	$	$	$
ha	Units	Ha	ha	ha	ha	ha	ha
0	Goals	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Grizzly Bear habitat protection**	**Activity #:** MIWWH7

Description of the Activity: The NSIFS must support the re-introduction and habitat protection effort for grizzly bear in the Cascade GBPU

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this project is to develop and test operational guidelines, which protect and enhance grizzly bear habitat values within the GBPU area.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$45,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: **OFF**	**Title: NSIFS Technical Implementation**	**Activity #: MIOFF1**

Description of the Activity: The NSIFS requires a forest management consultant to help develop the NSIFS implementation plan.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this contract is to provide the NSIFS with technical forest management expertise and to aid in implementing NSIFS programs.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$80,000	**Costs ($$)**	$90,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: **OFF**	**Title: On-going Spatial Timber Supply Support**	**Activity #: MIOFF2**

Description of the Activity: The NSIFS requires the on-going advice of a timber supply consultant to help ensure NSIFS programs will help achieve the NSIFS timber supply goals.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to ensure that the NSIFS approach of targeting innovative programs to achieve specific management objectives is achieved.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$110000	**Costs ($$)**	$15,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: **OFF**	**Title: UCC Peer Review of Environmental Program**	**Activity #: MIOFF3**

Description of the Activity: The NSIFS requires a peer review of its environmental program to ensure that it is meeting the NSIFS expectations.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to use local academics to review the NSIFS program to help ensure the program will meet the NSIFS long-term vision.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$20,000	**Costs ($$)**	$25,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3

Activities to Implement SSFM Strategies

SSFM Issue: OFF	**Title: Environmental Plan Implementation Strategy**	**Activity #: MIOFF4**

Description of the Activity: The NSIFS requires an environmental consultant to help develop the NSIFS implementation plan.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this contract is to provide the NSIFS with environmental resource technical expertise and to aid in implementing NSIFS programs.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$40,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: OFF	**Title:** Range & Noxious Weed Gap Analysis and Plan	**Activity #:** MIOFF5

Description of the Activity: The NSIFS requires an understanding of the role of noxious weeds in range and silviculture management.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective is to help heighten the importance of this issue and ensure forest management programs do not exacerbate the issues.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$30,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: OFF	**Title: Develop New Silviculture Regimes Part 3**	**Activity #: MIOFF6**

Description of the Activity: The NSIFS plans to incorporate wildlife, biodiversity and First Nations values into changing field practices by developing new silviculture regimes that will reflect these new considerations.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this on-going project is to proceed with a proposed process and develop new management regimes.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0	**Costs ($$)**	$55,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: OFF

Title: Workshops on NSIFS data

Activity #: MIOFF7

Description of the Activity: The NSIFS plans to undertake a number of workshops to communicate new information to NSIFS members and agency staff.

Status:

"New" OR Years in Progress?:

Priority Comments?:

Location:

Management Unit: Merritt TSA

Potential Lead Proponent:

Objectives: The objective of these workshops will be to explain the NSIFS efforts to date in environmental and forestry data, defining co-management and data sharing with First Nations partners.

Tasks, Deliverables, Targets & Milestones:

Target Dates:

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:

Timber Supply Review:

Non-Timber Resource Strategies:

LRMP:

Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$50,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: OFF	**Title: Admin - O/H**	**Activity #:** MIOFF8

Description of the Activity: The NSIFS requires office administration funding to provide staff support, accounting, communications and office support.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this funding is to meet the NSIFS objectives or requirements of the Society, such as financial reporting, tendering and awarding contracts, communications (newsletters, web sites and field trips, and support for NSIFS committees).

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$210,000	**Costs ($$)**	$330,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: OFF	**Title: Board of Directors needs**	**Activity #:** MIOFF9

Description of the Activity: The BOD has a number of initiatives that require funding including provincial IFPA meetings, co-management agreements, facilitator services, presentations, communications, etc.

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of the BOD is to provide direction to the NSIFS staff and to liaise with provincial agencies, etc.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	**NTRS =**	**LRMP =**	**RIC =**	**Timing =**	**Total =**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0	Costs ($$)	$85,000	$	$	$	$	$
ha	Units	Ha	ha	ha	ha	ha	ha
0	Goals	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: OFF	**Title: Changing practices demonstrations**	**Activity #:** MIOFF10

Description of the Activity: The NSIFS requires the establishment of a number of silviculture demonstrations including silviculture demos in the IDF, ESSF, and MS subzones.

Status:	**“New” OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of these demonstration areas is to incorporate new resource information and values into field practices.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0	**Costs ($$)**	$135,000	$	$	$	$	$
ha	**Units**	Ha	ha	ha	ha	ha	ha
0	**Goals**	0	0	0	0	0	0

Merritt IFPA - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: OFF	**Title: Resource Project Co-ordination**	**Activity #: MIOFF11**

Description of the Activity: The NSIFS requires a coordinator of programs and community liaison

Status:	**"New" OR Years in Progress?:**	**Priority Comments?:**

Location:	**Management Unit:** Merritt TSA

Potential Lead Proponent:

Objectives: The objective of this funding is to co-ordinate the acquisition, provision and utilization of resource information into the NSIFS analysis and community programs.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**

Benefits & Ranking Criteria:

TSR =	NTRS =	LRMP =	RIC =	Timing =	Total =

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$0	Costs ($$)	$85,000	$	$	$	$	$
ha	Units	Ha	ha	ha	ha	ha	ha
0	Goals	0	0	0	0	0	0

A1.8 TFL 15

TFL 15 RMP - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: CH	**Title: Archaeology Inventory Study**	**Activity #: T15CH1**

Description of the Activity: Archaeology Inventory Study of Osoyoos Indian Band (OIB) interest area. Work will build on previous FRBC funded AIS work and company funded AIA work completed within the OIB interest area.

Status:	**"New" OR Years in Progress?:** Ongoing 720251	**Priority Comments?** Priority 2

Location: OIB interest area (Inkaneep and parts of Vaseux Creeks)	**Management Unit:** TFL 15

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To locate and describe sites with archaeological potential and/or archaeological resources. .

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** March 31, 2003

Benefits & Ranking Criteria:

TSR = 3	**NTRS =9**	**LRMP =3**	**RIC =5**	**Timing =2**	**Total =22**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:

Rational for Ranking:

Additional Benefits: Previously completed AIS reports are stand-alone inventories. AIS outputs are used to manage archaeological resources, if they are present. Ongoing AIS inventories could potentially support development a model that predicts distribution of archaeological resources. Benefit is the identification of areas with confirmed resources and areas where the potential for finding archaeological resources is high.

Partnerships: OIB.

Comments:

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$20,000	**Costs ($$)**	$20,000	$20,000	$20,000	$20,000	$20,000	$100,000
24,000 ha	**Units**	24,000 ha	0 ha	0 ha	0 ha	0 ha	24,000 ha
Report	**Goals**	Report	Report	Report	Report	Report	Report

TFL 15 RMP - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: OAF 1 Inventory**	**Activity #: T15GY1**

Description of the Activity: Results from an OAF 1 inventory will be used for yield curve adjustment for the TSR that will support Management Plan #9.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?** Important for TSR that supports MWP #9. Priority 1

Location: TFL 15 **Management Unit**: TFL 15

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To develop OAF 1 estimates for TFL 15 that will be for yield curve adjustments for MP #9.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** March 31, 2003

Benefits & Ranking Criteria:

TSR = 8	**NTRS =6**	**LRMP =5**	**RIC =4**	**Timing =3**	**Total =26**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:

Rational for Ranking: OAF 1 is used in the TRS process to assist the Chief Forester in setting an AAC for TFL 15.

Additional Benefits: Extensive additional economic and social benefits.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$35,000	$0	$0	$0	$0	$35,000
0 ha	**Units**	48,000 ha	0 ha	0 ha	0 ha	0 ha	48,000 ha
	Goals	Report					Report

TFL 15 RMP - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Small Wood Inventory**	**Activity #: T15RP1**

Description of the Activity: Organisation, synthesis and analysis of information to determine the distribution and extent of small wood Lodgepole types in the inventories. Product will help define the Timber harvesting Land Base in the next TSR processes.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?** Important for TSR that supports MWP #9. Priority 1

Location: TFL 15 **Management Unit**: TFL 15

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: 1) To locate and describe small wood inventories to support TSR processes and assumptions. 2) Locate areas that have a non-merchantable forest cover that may be suitable for a rehab treatment.

Tasks, Deliverables, Targets & Milestones: **Target Dates:** March 31, 2003

Benefits & Ranking Criteria:

TSR = 10	**NTRS =6**	**LRMP =5**	**RIC =4**	**Timing =3**	**Total =28**

Benefits & Ranking Criteria:

Timber Supply Review:

Non-Timber Resource Strategies:

LRMP:

Other:

Rational for Ranking: A significant proportion of TFL 15 is small diameter lodgepole pine leading stocking class 4 or pine Problem Forest Types as defined in Management Plan #8. A small wood inventory will help describe the amount of area suitable for inclusion in the THLB for the next management plan.

Additional Benefits:

Partnerships:.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$50,000	$0	$0	$0	$0	$50,000
0 ha	**Units**	48,000 ha	0 ha	0 ha	0 ha	0 ha	48,000 ha
	Goals	Report					Report

TFL 15 RMP - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VRI | **Title: Vegetation Resource Inventory** | **Activity #: T15VRI1**

Description of the Activity: Adjustment to Phase 1 inventory using completed Phase 2 samples..

Status:

"New" OR Years in Progress?: Ongoing 720253

Priority Comments? Specifically requested by Chief Forester in Ratinale Statement for TFl 15. Critical for TSR that supports MWP #9. Ongoing project which is partially complete. Priority 1

Location: TFL 15

Management Unit: TFL 15

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To adjust Phase 1 inventory using new Phase 2 samples and analysis.

Tasks, Deliverables, Targets & Milestones:

Target Dates: March 31, 2003

Benefits & Ranking Criteria:

TSR = 10	**NTRS =7**	**LRMP =7**	**RIC =5**	**Timing =5**	**Total =34**

Benefits & Ranking Criteria:

Timber Supply Review:

Non-Timber Resource Strategies:

LRMP:

Other:

Rational for Ranking: Three-year project beginning its last year. Previous investment at risk if not completed. Project supports AAC determination for TFL 15 and the approval of MWP #9 as well as all other operational plans.

Additional Benefits: AAC determination. Extensive additional economic and social benefits.

Partnerships:.

Comments: Previous Investment includes interest earned on MYA funds.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$120,000	**Costs ($$)**	$20,000	$0	$0	$0	$0	$20,000
48,000 ha	**Units**	48,000 ha	0 ha	0 ha	0 ha	0 ha	48,000 ha
Interim Report	**Goals**	Final Report					Report

A1.9 TFL 18

TFL 18 -Template 3

Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: Growth and Yield**	**Activity #: T18GY1**

Description of the Activity: Intermediate Utilization Balsam Site Index Project for TFL18

Status:	**"New" OR Years in Progress?:** 1	**Priority Comments:** Information on productivity and stand development of second growth and complex stands on TFL18 is insufficient as stated in the Chief Foresters Rationale for AAC.

Location: TFL18

Management Unit: TFL18

Potential Lead Proponent: Slocan Forest Products Ltd. – Vavenby Division

Objectives:
To address the concerns identified in the rational by quantifying the current and potential future growth rates of these stands and developing a management strategy describing how they will contribute to the future timber supply of the TFL.

Tasks, Deliverables, Targets & Milestones:
This project will be developed in the 2001/2002 fiscal year. The field sampling and analysis will be completed in the 2002/2003 fiscal year. A report and maps will be delivered.

Target Dates:
Target completion in 2002/2003

Benefits & Ranking Criteria: (from plan drivers)

TSR = 9	**NTRS = 5**	**LRMP =6**	**RIC = 2**	**Timing =5**	**Total =27**

Rationale for Ranking:
In the rational for allowable cut determination document dated October, 2000 it was identified that there is uncertainty in the future volume projections, site productivity, and merchantability of the residual layer of these stands, particularly those in the low productivity stratum identified in the timber supply analysis.

Additional Benefits:
Will allow determination of sustainability of this forest type and predict future forest composition.
Will link to timber supply analysis, LRMP's and certification requirements.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$35000	**Costs ($$)**	$90000	$0	$0,000	$0,000	$0,000	$120,000
reports	**Units**	reports					
1	**Goals**	1					2

TFL 18 -Template 3

Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: Growth and Yield**	**Activity T18GY2**

Description of the Activity: Strategic Growth & Yield Project for TFL18

Status:	**"New" OR Years in Progress?:** 1+	**Priority Comments:** Improving growth and yield information is critical to TFL18 and timber supply. This strategy is necessary to outline the issues and to develop growth and yield systems for TFL18. This is recognized in the Chief Foresters Rationale for AAC. Existing and ongoing projects are part of this activity but a complete strategic plan is required.

Location: TFL18

Management Unit: TFL18

Potential Lead Proponent: Slocan Forest Products Ltd. – Vavenby Division

Objectives:
To improve the quality and increase the quantity of growth and yield resource information to aid and improve forest resource management planning and decision making.

Tasks, Deliverables, Targets & Milestones:
Develop strategies to meet the objectives. Set priorities and timelines.
Existing and ongoing projects are part of this activity but a complete strategic plan is required.
Report, maps and digital information will be delivered.

Target Dates:
Target completion in 2003/2004

Benefits & Ranking Criteria: (from plan drivers)

TSR = 9	**NTRS = 4**	**LRMP =6**	**RIC = 2**	**Timing =3**	**Total =24**

Rationale for Ranking:
Existing and ongoing projects are part of this activity but a complete strategic plan is required.

Additional Benefits:
Will provide strategic planning to determine sustainability and predict future forest composition.
Will link to certification requirements.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$30000	$80000	$0,000	$0,000	$0,000	$110000
reports	**Units**	reports	reports				
	Goals	1	1				2

TFL 18 -Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM	**Title: Terrain Stability Mapping**	**Activity #: T18TSM1**

Description of the Activity: Terrain Stability Mapping

Status:	**"New" OR Years in Progress?:** NEW	**Priority Comments:** No existing terrain mapping for area within TFL18

Location: TFL18	**Management Unit:** TFL18

Potential Lead Proponent: Slocan Forest Products Ltd. – Vavenby Division

Objectives:
To identify and map unstable or potentially unstable land areas.

Tasks, Deliverables, Targets & Milestones:
Air photo interpretation and ground sampling.
A report, maps and digital data will be delivered.
Stratification of work through a combination of Level C and Level D mapping.

Other gaps will be reviewed. Projected costs in 2003/2004 are based on this.

Target Dates:
Target completion of TFL18 in 2002/2003

Benefits & Ranking Criteria: (from plan drivers)

TSR = 5	**NTRS = 4**	**LRMP =3**	**RIC = 5**	**Timing =3**	**Total =20**

Rationale for Ranking:
Interacting concerns throughout Strategic Resource Plans and Decisions

Additional Benefits: Provide reliable information for the strategic planning, forest management decisions and determination of the operable land base of all resource uses.
TSM will have a direct link to timber supply analysis, LRMP's and non-timber resource strategies. These directly affect timber availability and other resource uses.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$100,000	$180,000	$0,000	$0,000	$0,000	$280,000
	Units	reports	reports				
	Goals	1	1				2

TFL 18 -Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VA | **Title: Visual Aesthetics** | **Activity #: T18VA1**

Description of the Activity: Visual Aesthetics

Status:

"New" OR Years in Progress?: NEW

Priority Comments: Information on visual aesthetics for TFL lakes is mentioned in the Chief Forester Rationale for AAC. Information is required for strategic planning, timber supply analysis and forest management processes.

Location: TFL18

Management Unit: TFL18

Potential Lead Proponent: Slocan Forest Products Ltd. – Vavenby Division

Objectives:
Fill in lakes visual landscape inventory gaps in regard to management options while considering public perception of visual quality.

Tasks, Deliverables, Targets & Milestones:
Visual Landscape Inventory on TFL18 lakes to fill in knowledge gaps. Report, maps and digital data will be delivered.

Target Dates:
Target completion in 2002/2003.

Benefits & Ranking Criteria: (from plan drivers)

TSR = 9	NTRS = 9	LRMP =6	RIC = 5	Timing =3	Total =32

Rationale for Ranking:
Lack of visual information on TFL18 has been mentioned in the Rationale for ACC by the Chief Forester.

Additional Benefits:
Directly affects timber availability and other resource uses.

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0	**Costs ($$)**	$30,000	$0	$0	$0,000	$0,000	$30000
reports	**Units**	reports	reports	reports			reports
	Goals	1					1

TFL 18 -Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VRI

Title: Vegetative Inventory

Activity #: T18VRI1

Description of the Activity: Vegetative Inventory for TFL18

Status:

"New" OR Years in Progress?: NEW

Priority Comments: Current vegetative inventory information has limited application.

Location: TFL18

Management Unit: TFL18

Potential Lead Proponent: Slocan Forest Products Ltd. – Vavenby Division

Objectives:
To update current inventory information (forest cover) to VRI levels.

Tasks, Deliverables, Targets & Milestones:
Phase 1 classification and mapping of the attributes.
Phase 2 ground sampling
RIC standards will be applied.

Target Dates:
Phase 1 2002/2003
Phase 2 2003/2004

Benefits & Ranking Criteria: (from plan drivers)

TSR = 5	**NTRS = 4**	**LRMP =3**	**RIC = 5**	**Timing =3**	**Total =20**

Rationale for Ranking:
AAC Rationale referenced refinements to existing TFL18 inventory though VRI process.
VRI as follow-up to completed TEM mapping.

Additional Benefits:
VRI will eliminate resource use problems prior to conflicts between stakeholders.

Partnerships: Potential for NTIB to involvement is high. Have been involved in TEM in the past.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($$)**	$30000	$80000	$0,000	$0,000	$0,000	$110,000
	Units	mapsheets	mapsheets				
	Goals	9	9				9

TFL 18 -Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Wildlife Habitat Inventory**	**Activity #: T18WWH1**

Description of the Activity: Wildlife Inventory for moose, grizzly bear, black bear, white-tailed deer, mule deer, fisher, marten and northern goshawk.

Status:	**"New" OR Years in Progress?:** 1 year in progress	**Priority Comments:** Lack of inventory information on the abundance, composition, distribution and trends for wildlife and habitat in TFL18. Follow-up to TEM mapping.

Location: TFL18	**Management Unit:** TFL18

Potential Lead Proponent: Slocan Forest Products Ltd. – Vavenby Division

Objectives:
To complete interpretations of wildlife and their habitat to establish links between resource activities and habitat structure and use.

Tasks, Deliverables, Targets & Milestones:	**Target Dates:**
Gap analysis on the existing TEM database to determine the occurrence or potential occurrence of rare/minor features ensuring the consideration of slope, aspect and elevation. Complete a sampling plan, field sampling, final report and maps.	Started in 2001/2002 and targeted for completion in the same year. May be carried over to 2002/2003

Benefits & Ranking Criteria: (from plan drivers)

TSR = 3	**NTRS = 7**	**LRMP =5**	**RIC = 5**	**Timing =5**	**Total =25**

Rationale for Ranking:
Ties to the Wildlife Inventory Strategy for Ungulate Game Species.
Should resolve a major component of the information gap.

Additional Benefits:
Information can be used by other agencies such for purposes of recreation and also expect First Nations interest.

Partnerships: Potential for NTIB to involvement is high. Have been involved in TEM in the past.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
60780	**Costs ($$)**	$30000	$0,000	$0,000	$0,000	$0,000	$90,780
ha	**Units**	ha	ha				
50000	**Goals**	24900					74900

A1.10 TFL 33

Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TEM

Title: Tem/Pem for SIBEC Adjustment/VRI

Activity #: T33TEM1

Description of the Activity: A TEM/PEM project is proposed to provide the basis for a Site Index Adjustment on TFL 33. A PEM supplemented with a future Vegetation Resource Inventory will also provide the tools for eventual modelling for both Timber and Non Timber Resource Values on the TFL.

Status:

"New" OR Years in Progress?: 2nd year

Priority Comments?: Very High

Location: Kamloops Forest Region, Salmon arm Forest District

Management Unit: TFL # 33

Potential Lead Proponent: Federated Co-operatives Limited (FCL)

Objectives: The intent of a TEM/PEM for TFL 33 is to provide an ecosystem-based justification for a Site Index Adjustment. TEM/PEM will also support modelling for Non Timber Resources once supplemented with a Vegetation Resource Inventory in the intent of meeting the strategies of the OSLRMP.

Comments: TEM/PEM provides the basic tools to provide strategic Site Index adjustment input to supplement Vegetation Inventory Phase 1 for Timber Supply Review.

Tasks, Deliverables, Targets & Milestones: **Target Dates:**

TEM/PEM Finalization of Mapping	2002
Preliminary SIBEC adjustments, Begin Phase 1 VRI	2002
Final SIBEC adjustments, Phase 2 VRI	2003
Finalize VRI	2004

Benefits & Ranking Criteria: (from plan drivers)

TSR = 10 **NTRS = 7** **LRMP = 4** **RIC = 5** **Timing = 5** **Total = 31**

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments: Continuation of amendment from 2001-2002

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$53,000	**Costs ($)**	$53,000	$53,000	$53,000	$0,000	$0,000	$159,000
8360 ha	**Units**	8360 ha	ha	ha	ha	ha	ha
	Goals						

A1.11 TFL 35

Template 3

Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: FFH – FHAT20 Modeling**	**Activity #: T35FFH1**

Description of the Activity: Test FHAT20 Modeling on existing inventories

Status:	**"New" OR Years in Progress?:** Year 2	**Priority Comments?:** Fill in information gaps with existing inventories
Location: Weyerhaeuser Operating Area **TFL 35**		**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: Field truth inventory output from the FHAT20 model

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing information regarding fish distribution and stream class.	**Target Dates:** March 2003

Benefits & Ranking Criteria:

TSR = 4	**NTRS = 9**	**LRMP = 6**	**RIC = 4**	**Timing = 5**	**Total = 28**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR –local consideration during TSR as a result of improved fish habitat information.
NTRS – High interest area regarding fisheries values
LRMP – Information obtained may be used to address fish species management in respect of the Kamloops LRMP

Additional Benefits:

Partnerships: Project provides continued partnership between Weyerhaeuser and the Ministry of Environment, Lands and Parks.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$25,000	**Costs ($$)**	$25,000	$25,000	$25,000	25,000	25000	$125,000
Report	**Units**	Report	Report	Report	Report	Report	Report
1	**Goals**	1	1	1	1	1	1

Template 3
Activities to Implement SSFM Strategies

SSFM Issue: **G&Y**

Title: Mid-rotation G&Y Survey

Activity #: **T35G&Y1**

Description of the Activity: Growth and yield survey of mid rotation stands on TFL 35

Status:

"New" OR Years in Progress?: New

Priority Comments?: Support timber supply analysis and forest level planning. Also, market certification.

Location: Weyerhaeuser Operating Area **TFL 35**

Management Unit: Kamloops TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: to implement mid-rotation surveys on PHR stand on TFL 35.

Tasks, Deliverables, Targets & Milestones: Survey results and analysis of data.

Target Dates: March 2007

Benefits & Ranking Criteria:

TSR = 8	**NTRS = 4**	**LRMP = 2**	**RIC = 1**	**Timing = 3**	**Total = 18**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR – improved stand level inventory information for TSR.
NTRS – improved G&Y information for projections related to non-timber values.
LRMP –program may address higher level planning issues regarding the Kamloops LRMP.

Additional Benefits:

Partnerships: Project provides continued partnership between Weyerhaeuser and the Ministry of Forests.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs**	$45,000	$70,500	$70,500	$70,500	$70,500	$327,000
Report	**Units**	Report	Report	Report	Report	Report	Report
1	**Goals**	1	1	1	1	1	1

Template 3
Activities to Implement SSFM Strategies

SSFM Issue: **G&Y**	**Title: G&Y Monitoring**	**Activity #:** **T35G&Y2**

Description of the Activity: G&Y continued monitoring work on TFL 35

Status:	**"New" OR Years in Progress?:** Year 3	**Priority Comments?:** Support timber supply analysis and forest level planning. Also, market certification.

Location: Weyerhaeuser Operating Area **TFL 35**	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: to design and test a growth and yield monitoring program for one or more predictions on TFL 35.

Tasks, Deliverables, Targets & Milestones: The work will continue from previous year's work in providing information to the G&Y monitoring program.	**Target Dates:** March 2003

Benefits & Ranking Criteria:

TSR = 8	**NTRS = 4**	**LRMP = 2**	**RIC = 4**	**Timing = 5**	**Total = 23**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking: TSR - information will be used to monitor volume growth in Post Harvest Regenerated (PHR) stands. Information will be used to compare actual to predicted yield.
NTRS – improved G&Y information for projections related to non-timber values.
LRMP –program may address higher level planning issues regarding the Kamloops LRMP.

Additional Benefits:

Partnerships: Project provides continued partnership between Weyerhaeuser and the Ministry of Forests.

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$133,000	**Costs ($$)**	$25,000	0	0	0	0	$25,000
Report	**Units**	Report	Report	Report	ha	ha	Report
1	**Goals**	1	1	1			1

Template 3
Activities to Implement SSFM Strategies

SSFM Issue: GY	**Title: OAF's for Pests**	**Activity #: T35GY3**

Description of the Activity: Enhancing OAF1 to account for pest related reductions in consideration to the next timber supply analysis.

Status:	**"New" OR Years in Progress?:** New	**Priority Comments?:** Fill in information gaps with existing inventories
Location: Weyerhaeuser Operating Area, **TFL 35**		**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: Enhancing analytical tools and models

Tasks, Deliverables, Targets & Milestones:	**Target Dates:** March 2007

Benefits & Ranking Criteria:

TSR = 8	**NTRS = 2**	**LRMP = 3**	**RIC = 5**	**Timing = 3**	**Total = 21**

Benefits & Ranking Criteria:
TSR – High interest regarding considerations to timber supply analysis

Rational for Ranking:
TSR – High interest regarding considerations to timber supply analysis

Additional Benefits: use of the enhanced survey tool over TFL 35. Identify on block disturbance issues

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	30,000	$30,000	$30,000	$30,000	$30,000	$150,000
Report	**Units**	Report	study	study	study	study	study
0	**Goals**	0	1	1	1	1	1

Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Wildlife Interpretative Work**	**Activity #:** T35WWH1

Description of the Activity: Enhance the wildlife interpretative work completed under TEM

Status:	"New" OR Years in Progress?: New	Priority Comments?: Priority at forest level and forest development planning, fulfill information gaps according to LRMP

Location: Weyerhaeuser Operating Area - **TFL 35**	**Management Unit:** Kamloops TSA

Potential Lead Proponent: Weyerhaeuser Company Limited

Objectives: To study wildlife species and habitat use, using the existing TEM product. This will enhance the information base used in managing the wildlife species with regards to forest level and development planning

Tasks, Deliverables, Targets & Milestones: The work will enhance the information base provided through the TEM product for the purpose of forest level and development planning.	**Target Dates:** March 2007

Benefits & Ranking Criteria:

TSR = 2	**NTRS = 9**	**LRMP = 8**	**RIC = 4**	**Timing = 3**	**Total = 26**

Benefits & Ranking Criteria:
Timber Supply Review:
Non-Timber Resource Strategies:
LRMP:
Other:.

Rational for Ranking:
TSR –**local consideration during TSR as a result of improved critical habitat information.**
NTRS – High interest area regarding wildlife species habitat values
LRMP – Information obtained may be used to address sensitive habitat use issues identified in the Kamloops LRMP

Additional Benefits:

Partnerships:, Potential partnership with local bands

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
0	**Costs ($$)**	$40,000	$40,000	$40,000	$40,000	$40,000	$200,000
Report	**Units**	Report	Report	Report	Report	Report	Report
1	**Goals**	1	1	1	1	1	1

A1.12 TFL 49

TFL 49 - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH	**Title: Fish Habitat Inventory**	**Activity #: T49FFH1**

Description of the Activity:
Relates to TFL 49 Pilot Project.
Conduct inventory of fisheries values to track progress of TFL performance-based Code targets.

Status:	"New" OR Years in Progress?: 3	**Priority Comments:** Very high priority. Essential for a results based regime.

Location: Lambley Creek with potential other locations.	**Management Unit:** Throughout TFL 49

Potential Lead Proponent: Riverside Forest Products Limited

Objectives: To effectively measure progress against targets identified in the pilot's Stewardship Plan.

Tasks, Deliverables, Targets & Milestones:
Generate a report showing progress against targets.

Target Dates:
March 31/02

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	NTRS = 8	LRMP = 8	RIC = 2	Timing = 5	Total = 31

Rationale for Ranking:
Ranking is made in context of priority with context of TFL Pilot project. Unfortunately, ranking categories do not fit well with pilot. For example, pilot is strongly supported by Chief Forester of FS but is not related to TSR directly. Due to innovative nature of pilot, it tests methodologies not found in RIC or common accepted methodologies. Pilot is driven more by need to assist government to move towards its target of a results-based Code within 18 months of coming to office. On-going monitoring of progress against results-based pilot is essential for government and the public for gauging success of this pilot. Planned work reflects continuation of type of inventory and analysis conducted in 2001/02.

Additional Benefits:
Increased accuracy and timeliness of data on key environmental values in the TFL available to ministries and stakeholders.

Partnerships: Not determined at this time. Some opportunities for communities and First Nations involvement are being discussed.

Comments: TFL 49 pilot project management team, including Fred Baxter and John Thompson, have emphasized the importance of on-going inventory and monitoring to gauge success of pilot.

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$75,000	**Costs ($$)**	$40,000	$35,000	$25,000	$25,000	$50,000	$175,000
1 report	**Units**	1 report	1 report	1 report	1 report	1 report	5 reports
	Goals						

TFL 49 - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: FFH | **Title: Fisheries Inventory** | **Activity #: T49FFH2**

Description of the Activity: Relates to TFL 49 Pilot Project. Conduct inventory of fisheries values to track progress of TFL performance-based Code targets.

Status:

"New" OR Years in Progress?: 3

Priority Comments: Very high priority. Essential for a results based regime.

Location: Lambley Creek with potential other locations.

Management Unit: Throughout TFL 49

Potential Lead Proponent: Riverside Forest Products Limited

Objectives: To effectively measure progress against targets identified in the pilot's Stewardship Plan.

Tasks, Deliverables, Targets & Milestones:
Generate a report showing progress against targets.

Target Dates:
March 31/02

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	**NTRS = 8**	**LRMP = 8**	**RIC = 2**	**Timing = 5**	**Total = 31**

Rationale for Ranking:
Ranking is made in context of priority with context of TFL Pilot project. Unfortunately, ranking categories do not fit well with pilot. For example, pilot is strongly supported by Chief Forester of FS but is not related to TSR directly. Due to innovative nature of pilot, it tests methodologies not found in RIC or common accepted methodologies. Pilot is driven more by need to assist government to move towards its target of a results-based Code within 18 months of coming into office. On-going monitoring of progress against results-based pilot is essential for government and the public for gauging success of this pilot. Planned work reflects continuation of type of inventory and analysis conducted in 2001/02.

Additional Benefits:
Increased accuracy and timeliness of data on key environmental values in the TFL available to ministries and stakeholders.

Partnerships: Not determined at this time. Some opportunities for communities and First Nations involvement are being discussed.

Comments: TFL 49 pilot project management team, including Fred Baxter and John Thompson, have emphasized the importance of on-going inventory and monitoring to gauge success of pilot.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$100,000	**Costs ($$)**	$70,000	$60,000	$60,000	$60,000	$60,000	$310,000
1 report	**Units**	1 report	1 report	1 report	1 report	1 report	5 reports
	Goals						

TFL 49 - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: IT	**Title: Enhance analytical models and tools.**	**Activity #: T49IT1**

Description of the Activity:
Relates to TFL 49 Pilot Project which receives strong support from senior public servants in Victoria under the new government. This activity is pivotal to the success of the pilot as it provides the overall framework for managing for environmental, social and economic values on an integrated basis. This model, which incorporates an ecological approach to managing forest resources, as not been implemented in BC on an operational scale. Hence, it generates significant interest from senior government officials.

Status:	"New" OR Years in Progress?: 3	**Priority Comments:** Very high priority. Essential for a results based regime.

Location: Across TFL	**Management Unit:** Throughout TFL 49

Potential Lead Proponent: Riverside Forest Products Limited

Objectives: To demonstrate that an alternative ecological management model can be effectively manage environmental, social and economic values.

Tasks, Deliverables, Targets & Milestones:
Generate a report outlining results of implementation of the model.

Target Dates:
March 31/02

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	NTRS = 8	LRMP = 8	RIC = 2	Timing = 5	Total = 31

Rationale for Ranking:
Forest Service and MSRM executive continue to express strong support for the piloting of an ecological model. Hence, FS executive is strongly supportive of this project. Ranking is made in context of priority with context of TFL Pilot project. Unfortunately, ranking categories do not fit well with pilot. For example, pilot is strongly supported by Chief Forester of FS but is not related to TSR directly. Due to innovative nature of pilot, it tests methodologies not found in RIC or common accepted methodologies. Pilot is driven more by need to assist government to move towards its target of a results-based Code within 18 months of coming into office. Planned work reflects continuation of planning and testing started in 2001/02.

Additional Benefits:
Increased understanding of the inter-relationship between environmental, social and economic values in the southern interior.

Partnerships: Not determined at this time. Some opportunities for communities and First Nations involvement are being discussed.

Comments: TFL 49 pilot project management team, including Fred Baxter and John Thompson, have emphasized the importance of this ecological model.

Previous Investment		Recommended Investments					
Previous 2001/02	Activity Item	Current 2002/03	Projected 2003/04	Projected 2004/05	Projected 2005/06	Projected 2006/07	5 Year Totals
$160,000	**Costs ($$)**	$120,000					$120,000
1 report	**Units**	1 report	1 report	1 report	1 report	1 report	5 reports
	Goals						

TFL 49 - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: IT	**Title: Alternative Silviculture Model based on Results Based Approach**	**Activity #: T49IT2**

Description of the Activity: Relates to TFL 49 Pilot Project. Continue work on developing a silviculture model which assesses performance on indicators other than free to grow.

Status:	"New" OR Years in Progress?: 3	**Priority Comments:** Very high priority. Essential for a results based regime.

Location: Plots located throughout TFL.

Management Unit: Throughout TFL 49

Potential Lead Proponent: Riverside Forest Products Limited

Objectives: To effectively measure progress against targets identified in the pilot's Stewardship Plan and to demonstrate that alternative silviculture model can be effectively applied.

Tasks, Deliverables, Targets & Milestones: Generate a report showing progress against targets.

Target Dates: March 31/02

Benefits & Ranking Criteria: (from plan drivers)

TSR = 10	NTRS = 8	LRMP = 8	RIC = 2	Timing = 5	Total = 33

Rationale for Ranking:
Ranking is made in context of priority with context of TFL Pilot project. Unfortunately, ranking categories do not fit well with pilot. For example, pilot is strongly supported by Chief Forester of FS but is not related to TSR directly. With alternative silviculture model project, work will address a number of key TSR issues relating to productivity and adjacency. Due to innovative nature of pilot, it tests methodologies not found in RIC or common accepted methodologies. Pilot is driven more by need to assist government to move towards its target of a results-based Code within 18 months of coming into office. On-going monitoring of progress against results-based pilot is essential for government and the public for gauging success of this pilot. Planned work reflects continuation of type of inventory and analysis conducted in 2001/02.

Additional Benefits:
Increased accuracy and timeliness of data on key values associated with the regeneration of stands.

Partnerships: Not determined at this time. Some opportunities for communities and First Nations involvement are being discussed.

Comments: TFL 49 pilot project management team, including Fred Baxter and John Thompson, have emphasized the importance of on-going inventory and monitoring to gauge success of pilot.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$60,000	**Costs ($$)**	$30,000	$20,000	$20,000	$20,000	$20,000	$110,000
1 report	**Units**	1 report	1 report	1 report	1 report	1 report	5 reports
	Goals						

TFL 49 - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: RP	**Title: Riparian Management Pilot**	**Activity #: T49RP1**

Description of the Activity: Relates to TFL 49 Pilot Project. Serve as one of the provincial test sites for the alternative riparian management pilot being undertaken by the FS.

Status:	"New" OR Years in Progress?: 3	**Priority Comments:** Very high priority. Essential for a results based regime.

Location: Plots located throughout TFL.	**Management Unit:** Throughout TFL 49

Potential Lead Proponent: Riverside Forest Products Limited

Objectives: To demonstrate that an alternative riparian management model can be effectively manage environmental, social and economic values.

Tasks, Deliverables, Targets & Milestones:

	Target Dates:
Generate a report outlining results of testing of the effectiveness of the alternative riparian management model.	**March 31/02**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	**NTRS = 8**	**LRMP = 8**	**RIC = 2**	**Timing = 5**	**Total = 31**

Rationale for Ranking:

Forest Service executive asked Riverside to provide one of the sites to test the alternative silviculture model. Hence, FS executive is strongly supportive of this project. Ranking is made in context of priority with context of TFL Pilot project. Unfortunately, ranking categories do not fit well with pilot. For example, pilot is strongly supported by Chief Forester of FS but is not related to TSR directly. Due to innovative nature of pilot, it tests methodologies not found in RIC or common accepted methodologies. Pilot is driven more by need to assist government to move towards its target of a results-based Code within 18 months of coming into office. Planned work reflects continuation of planning and testing started in 2001/02.

Additional Benefits:

Increased understanding of the inter-relationship between environmental, social and economic values in riparian areas.

Partnerships: Not determined at this time. Some opportunities for communities and First Nations involvement are being discussed.

Comments: TFL 49 pilot project management team, including Fred Baxter and John Thompson, have emphasized the importance of the riparian pilot.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$80,000	**Costs ($$)**	$40,000	$30,000	$30,000	$30,000	$30,000	$160,000
1 report	**Units**	1 report	1 report	1 report	1 report	1 report	5 reports
	Goals						

Template 3
Activities to Implement SSFM Strategies

SSFM Issue: TSM **Title: Terrain Stability Mapping** **Activity #: TF49TSM**

Description of the Activity: Complete project which began in 2000/01.

Status:

"New" OR Years in Progress?: Begun in 2000/01, no activity in 2001/02, will carry on in 2002/03

Priority Comments: High Priority

Location: TFL 49, North of Shorts Creek

Management Unit: TFL 49

Potential Lead Proponent: Riverside Forest Products

Objectives: To complete the identification and mapping of unstable or potentially unstable land within the project area for use in strategic planning, AAC determination, and assessments linked to other resource uses.

Tasks, Deliverables, Targets & Milestones:

Target Dates: March 31, 2003

Benefits & Ranking Criteria: (from plan drivers)

TSR = 5	**NTRS = 3**	**LRMP =3**	**RIC = 5**	**Timing =3**	**Total =19**

Rationale for Ranking:

Additional Benefits:

Partnerships:

Comments:

Previous Investment		**Recommended Investments**					
Previous 2001/02	**Activity Item**	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$0,000	**Costs ($)**	$130,000	$70,000	$0,000	$0,000	$0,000	$200,000
ha	**Units**	70,000 ha	30 000 ha	ha	ha	ha	100,000 ha
	Goals						

TFL 49 - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: VRI	**Title: Vegetation Inventory**	**Activity #: T49VRI1**

Description of the Activity: Relates to TFL 49 Pilot Project. Conduct inventory of old growth, seral stage and other key vegetation values to track progress of TFL performance-based Code targets.

Status:	**"New" OR Years in Progress?:** 3	**Priority Comments:** Very high priority. Essential for a results based regime.

Location: Plots located throughout TFL.	**Management Unit:** Throughout TFL 49

Potential Lead Proponent: Riverside Forest Products Limited

Objectives: To effectively measure progress against targets identified in the pilot's Stewardship Plan.

Tasks, Deliverables, Targets & Milestones: Generate a report showing progress against targets.	**Target Dates:** **March 31/02**

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	**NTRS = 8**	**LRMP = 8**	**RIC = 2**	**Timing = 5**	**Total = 31**

Rationale for Ranking:
Ranking is made in context of priority with context of TFL Pilot project. Unfortunately, ranking categories do not fit well with pilot. For example, pilot is strongly supported by Chief Forester of FS but is not related to TSR directly. Due to innovative nature of pilot, it tests methodologies not found in RIC or common accepted methodologies. Pilot is driven more by need to assist government to move towards its target of a results-based Code within 18 months of coming into office. On-going monitoring of progress against results-based pilot is essential for government and the public for gauging success of this pilot. Planned work reflects continuation of type of inventory and analysis conducted in 2001/02.

Additional Benefits:
Increased accuracy and timeliness of data on key environmental values in the TFL available to ministries and stakeholders.

Partnerships: Not determined at this time. Some opportunities for communities and First Nations involvement are being discussed.

Comments: TFL 49 pilot project management team, including Fred Baxter and John Thompson, have emphasized the importance of on-going inventory and monitoring to gauge success of pilot.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$60,000	**Costs**	$40,000	$20,000	$10,000	$10,000	$10,000	$90,000
1 report	**Units**	1 report	1 report	1 report	1 report	1 report	5 reports
	Goals						

TFL 49 - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: WWH	**Title: Wildlife Inventory**	**Activity #: T49WWH1**

Description of the Activity:
Relates to TFL 49 Pilot Project.
Conduct inventory of wildlife values to track progress of TFL performance-based Code targets.

Status:	**"New" OR Years in Progress?:** 3	**Priority Comments:** Very high priority. Essential for a results based regime.

Location: Plots located throughout TFL.	**Management Unit:** Throughout TFL 49

Potential Lead Proponent: Riverside Forest Products Limited

Objectives: To effectively measure progress against targets identified in the pilot's Stewardship Plan.

Tasks, Deliverables, Targets & Milestones:
Generate a report showing progress against targets.

Target Dates:
March 31/02

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	**NTRS = 8**	**LRMP = 8**	**RIC = 2**	**Timing = 5**	**Total = 31**

Rationale for Ranking:
Ranking is made in context of priority with context of TFL Pilot project. Unfortunately, ranking categories do not fit well with pilot. For example, pilot is strongly supported by Chief Forester of FS but is not related to TSR directly. Due to innovative nature of pilot, it tests methodologies not found in RIC or common accepted methodologies. Pilot is driven more by need to assist government to move towards its target of a results-based Code within 18 months of coming into office. On-going monitoring of progress against results-based pilot is essential for government and the public for gauging success of this pilot. Planned work reflects continuation of type of inventory and analysis conducted in 2001/02.

Additional Benefits:
Increased accuracy and timeliness of data on key environmental values in the TFL available to ministries and stakeholders.

Partnerships: Not determined at this time. Some opportunities for communities and First Nations involvement are being discussed.

Comments: TFL 49 pilot project management team, including Fred Baxter and John Thompson, have emphasized the importance of on-going inventory and monitoring to gauge success of pilot.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$60,000	**Costs ($$)**	$50,000	$40,000	$35,000	$35,000	$35,000	$195,000
1 report	**Units**	1 report	1 report	1 report	1 report	1 report	5 reports
	Goals						

TFL 49 - Template 3
Activities to Implement SSFM Strategies

SSFM Issue: OFF	**Title: Monitoring of Results of Pilot**	**Activity #: T49OFF1**

Description of the Activity: Relates to TFL 49 Pilot Project. Involves formal monitoring and audit of achievement of results.

Status:	"New" OR Years in Progress?: 3	Priority Comments: Very high priority. Essential for a results based regime.

Location: Plots located throughout TFL.	**Management Unit**: Throughout TFL 49

Potential Lead Proponent: Riverside Forest Products Limited

Objectives: To provide formal assessments of progress against target results.

Tasks, Deliverables, Targets & Milestones:

Generate a report outlining results of monitoring and audit. Report is required by Part 10.1 of the Code Act for results[based Code.

Target Dates: March 31/02

Benefits & Ranking Criteria: (from plan drivers)

TSR = 8	**NTRS = 8**	**LRMP = 8**	**RIC = 2**	**Timing = 5**	**Total = 31**

Rationale for Ranking:

Government requires independent feedback on performance of pilot. This will provide the basis for assessing performance on a results-based Code pilot that the government may wish to apply elsewhere in the province as part of its New Era priority to implement a results based Code within 18 months of coming into office. Hence, FS executive is strongly supportive of this project. Ranking is made in context of priority with context of TFL Pilot project. Unfortunately, ranking categories do not fit well with pilot. For example, pilot is strongly supported by Chief Forester of FS but is not related to TSR directly. Due to innovative nature of pilot, it tests methodologies not found in RIC or common accepted methodologies.

Additional Benefits:

Demonstrating to stakeholders that government and industry is committed to sustainable forest management.

Partnerships: Not determined at this time. Some opportunities for communities and First Nations involvement are being discussed.

Comments: TFL 49 pilot project management team, including Fred Baxter and John Thompson, have emphasized the importance of on-going monitoring and audits to gauge success of pilot.

Previous Investment		**Recommended Investments**					
Previous 2001/02	Activity Item	**Current 2002/03**	**Projected 2003/04**	**Projected 2004/05**	**Projected 2005/06**	**Projected 2006/07**	**5 Year Totals**
$75,000	**Costs ($$)**	$30,000	$80,000	$60,000	$60,000	$60,000	$290,000
1 report	**Units**	1 report	1 report	1 report	1 report	1 report	5 reports
	Goals						